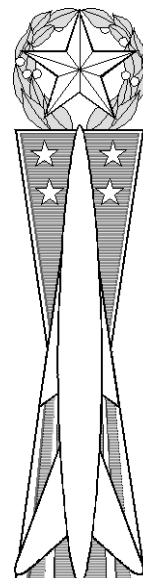


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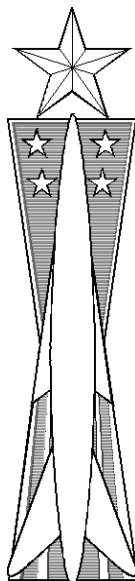
**CFETP 2M0X2
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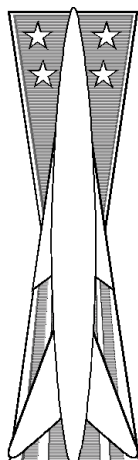
**MISSILE AND SPACE SYSTEMS
MAINTENANCE**



MASTER



SENIOR



BASIC

**CAREER FIELD
EDUCATION AND TRAINING PLAN
(CFETP)**

MISSILE AND SPACE SYSTEMS MAINTENANCE SPECIALTY

AFSC 2M0X2
CAREER FIELD EDUCATION TRAINING PLAN
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MISSILE AND SPACE SYSTEMS MAINTENANCE SPECIALTY
AFSC 2M0X2
CAREER FIELD EDUCATION TRAINING PLAN

PREFACE

1. A highly trained, motivated enlisted workforce is the Air Force's key resource in meeting challenges of the future. If the Air Force is to meet present and future challenges, it's essential the workforce be effectively and efficiently trained to perform duties within each skill level of the Air Force Specialty (AFS). The Career Field Education Training Plan (CFETP) for the Missile and Space Systems Maintenance specialty provides the framework and guidance necessary for planning, developing, managing, and conducting a career field training program. The plan documents a "training roadmap" for the career field. This roadmap is used to identify mandatory and optional skill level training an individual should receive during their career in the Missile and Space Systems Maintenance Specialty.

2. The CFETP consists of two parts used to plan, manage, and control training within the 2M0X2 career field.

a. Part I provides information necessary for overall management of training in the career field. **Section A** explains how everyone will use the plan; **Section B** identifies career progression information, duties and responsibilities, training strategies, and career field flowcharts; **Section C** associates each skill level with specialty qualifications (knowledge, training, education, experience, and other); **Section D** identifies training resource constraints. Some examples are: funds, manpower, equipment, facilities.

b. Part II includes the following: **Section A** identifies the Specialty Training Standard (STS)/Course Training Standard (CTS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) training conducted, wartime course/core task and correspondence course requirements; **Section B** identifies available OJT support materials. Qualification training packages identified in this section have been developed to support both upgrade and qualification training. These packages are indexed in AFIND 8 and are "F" distribution; **Section C** contains a training course index supervisors can use to determine resources available to support both mandatory and optional training. **Section D** can be used to identify Major Command (MAJCOM) unique training requirements. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

3. Use of this CFETP will ensure each individual in the Missile and Space Systems Maintenance specialty will receive effective and efficient training at the appropriate point in his/her career. This plan will enable the Air Force to train today's workforce for tomorrow's mission.

Abbreviations/Terms Explained

Advanced Training - A formal course that provides individuals who are already fully qualified in their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of an AFS.

Career Development Course (CDC) - A formal written course, which provides personnel with additional knowledge necessary to advance to the next higher skill level.

Career Field Education Training Plan (CFETP) - A multipurpose document that encapsulates the entire spectrum of training for a career field or specialty. It outlines a logical growth plan that includes training resources and is designed to make career field training identifiable, eliminate duplication, and is budget defensible.

Continuation Training - Additional qualification training exceeding the minimum upgrade training requirements with emphasis on present or future duty assignments.

Core Task - Tasks identified by Air Force specialty functional managers as minimum qualification requirements within an Air Force Specialty or duty position.

Critical Task - Tasks identified by the MAJCOM functional manager or local unit supervisors as additional qualification requirements within a specialty or duty position for assigned personnel.

Cruise missile (CM) - Personnel in AFSC 2M0XX and 2M0X1B associated with Air Launched Cruise missile (ALCM), Advanced Cruise missile (ACM) and Conventional Air Launched Cruise missile (CALCM) programs. These personnel are normally associated with Air Combat Command, but may be assigned in Air Force Material Command positions.

Field Technical Training (Type 4) - Special or regular on-site training conducted by a field training detachment (FTD) or by a mobile training team (MTT).

Initial Skills Training (Type 3) - A formal resident course that results in award of the 3-skill level.

Intercontinental Ballistic Missile (ICBM) - Personnel in AFSC 2M0XX associated with Minuteman III and Peacekeeper weapon systems. These personnel are normally associated with Air Force Space Command, but may be assigned in Air Force Material Command positions.

Mechanical Shop (MECH) - 2M0X2s performing in-shop maintenance on weapons system components and support equipment at ICBM units.

Missile Handling Team (MHT) - A team of 2M0X2 personnel responsible for removal, emplacement, storage, and transportation of ICBM missiles.

Missile Maintenance Team (MMT) - A team of 2M0X2 personnel who dispatch to remote launch facilities to perform maintenance on the missile, missile guidance set, reentry system, and other selected weapon system subsystems.

Occupational Survey Report (OSR) - A detailed report showing the results of an occupational survey of tasks performed within a particular AFS.

On-the-Job Training (OJT) - A method used to certify personnel in both upgrade (skill level award) and qualification (duty position certification) training. OJT is hands-on, over-the-shoulder training conducted at the duty station.

Pneudraulics Shop (PNEU) - 2M0X2 personnel performing maintenance on pneudraulic and hydraulic systems associated with the ICBM weapon system.

Qualification Training (QT) - Actual hands-on task performance-based training designed to qualify an airman in a specific duty position or specific task. This training occurs both during and after the upgrade training process and is designed to provide performance skills training required to do the job.

Research and Development (R&D) - Personnel in AFSC 2M0XX associated with research, development, acquisition, and support of missiles, spacelift, lasers, weapons, drones, etc. These personnel are normally associated with Air Force Material Command.

Resource Constraints - Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude training from being delivered.

Spacelift - Personnel in AFSC 2M0XX associated with national space programs supporting the launch and recovery of space assets. These personnel are normally associated with Air Force Space Command.

Specialty Training Standard (STS) - Part II, Section A of the CFETP which identifies the training standard required to achieve a skill level(s) within an enlisted AFS. It standardizes and controls the quality of individual training.

Standard - A fixed quantity, quality, or level of performance that an individual is expected to demonstrate.

Upgrade Training (UGT) - Mandatory training that leads to the award of a higher skill level.

PART I
Section A - GENERAL INFORMATION

1. Purpose of the CFETP. This CFETP provides information that career field functional managers, training managers, commanders, supervisors, trainers, and the technical training center use to plan, develop, manage and conduct an effective and efficient career field training program. The plan outlines training individuals must receive to develop and progress throughout their career. This plan identifies initial skills, upgrade, qualification, advanced, and continuation training. This plan does not address Professional Military Education (PME) or ancillary training. The CFETP has several purposes:

a. Serves as a management tool to plan, develop, manage, and conduct a career field training program. It is also used to ensure that established training is provided at the appropriate point in an individual's career.

b. Identifies task and knowledge requirements for each skill level in the specialty and recommends training throughout each phase of an individual's career.

c. Lists training courses available in the specialty, identifies sources of training, and provides the training medium.

d. Identifies major resource constraints that impact implementation of the desired career field training program.

2. Use of the CFETP. The CFETP will be approved and maintained by the Air Force Career Field Manager (AFCFM). The MAJCOM 2M0XX Functional Manager and AETC will review the CFETP annually to ensure currency and accuracy and forward recommended changes to the AFCFM. MAJCOMs must make sure training isn't developed that can be satisfied by existing courses. This plan will be used at all levels to ensure a comprehensive and cohesive training program is available and instituted for each individual in the career ladder.

a. AETC training personnel will develop/revise formal resident and exportable training based upon requirements established by the users and documented in part II of the CFETP. They will also develop procurement and acquisition strategies for obtaining resources needed to provide the identified training. In addition, the AETC training manager will prepare a camera ready CFETP and send to SAF/AAIPD for publication and notify HQ AETC to index the CFETP in AFIND 8. The training manager is also responsible for updates and publication of all changes. A Utilization and Training Workshop (U&TW) will be conducted as needed and hosted by the training manager. The AFCFM will chair the U&TW.

b. The MAJCOM functional managers will ensure their training programs complement the CFETP mandatory initial skills and UGT requirements. Identified requirements can be satisfied by OJT, resident training, contract training, or exportable courseware/courses. MAJCOM-developed training must be identified for inclusion in this plan and must not duplicate available training.

c. Each individual will complete the mandatory training requirements specified in this plan. Unit level training managers and supervisors will manage and control progression through the career field by ensuring that each individual completes the mandatory training requirements for upgrade specified in this plan as supplemented by their MAJCOM. The list of courses in Part II, Sec. C, will be used as a reference to determine training required.

PART I

Section B - CAREER PROGRESSION AND INFORMATION

1. **Purpose.** This section provides information career field functional managers, training managers, commanders, supervisors, trainers, and the technical training center use to plan career field progression in the Missile and Space Systems Maintenance specialty. This plan describes the functions and responsibilities of AFSC 2M0X2, skill progression, training decisions, and outlines Community College of the Air Force educational opportunities.

2. Specialty Descriptions:

a. Missile and Space Systems Maintenance Apprentice and Journeyman (2M032A/52).

(1) Assembles, fabricates, installs, troubleshoots, tests, operates, repairs, maintains, modifies, configures, inspects, services, or directs and controls these actions on missiles, Unmanned Air Vehicles (UAVs), boosters, payloads, R&D systems, environmental blast doors and valves, subsystems, components and support equipment. Launches, directs, controls, tracks, and recovers UAVs and operates and maintains related equipment.

(2) Duties and Responsibilities.

(a) *Performs associated missile maintenance actions at the flightline, railhead, support base, launch facility, missile alert facility, test facilities, and storage facilities.* Inspects, prepares, loads, unloads, hoists, services, troubleshoots, handles, repairs, checks, removes, replaces and adjusts components and subcomponents. Mechanically/electrically connect/disconnect: re-entry systems, guidance and control sections, missile stages, propulsion systems and secondary ordnance devices at the launch facility. Prepares missile and launch facility for simulated launch and follow-on test and evaluation. Performs preventative maintenance inspections and electrical tests on missile, missile components, launch facility, missile alert facility, support vehicles, hydraulic, and pneumatic systems, and equipment. Operates special purpose vehicles, support equipment and configures vehicles with support equipment. Determines depth of malfunctions. Uses technical publications, mechanical drawings and consults with engineers. Maintains technical orders and publication files.

(b) *Directs and controls the transportation, assembly, and inspection of booster and payloads functions.* Directs and controls the following actions: loading, transportation, unloading, hoisting, and erection to place boosters and satellites into operation or maintenance positions; preparation of space launch complexes; receipt, inspection and assembly of boosters, payloads, component parts, and subsystems; erection and mating of booster sections and

payloads; servicing, inspection, repair, maintenance, checkout, testing, and operation of associated support equipment. Performs or directs the performance of preventive maintenance inspections. Assists in evaluation of malfunctions by using technical publications, mechanical drawings, or engineering instructions. Practices and supervises safety procedures to be followed in the handling of nitrogen, liquid fuels, oxidizers, and ordnance devices.

(c) *Assesses quality of personnel and equipment.* Inspects personnel performance, equipment, and management functions for compliance with technical data and governing directives. Submits reports to management on all quality assessment findings.

(d) *Conducts maintenance and operations training.* Conducts training of personnel prior to being task certified. Conducts recurring training to assure task proficiency.

(e) *Performs Laboratory R&D activities.* Fabricates, assembles, installs, inspects, operates, tests, and troubleshoots specialized R&D systems such as: laser, energetic materials, solid/liquid propulsion, composites, optical, satellite, space structures and power, telescope pointing and tracking, and high power microwave. Operates, maintains, and assists in resolving problems associated with support equipment such as: data acquisition, fiber optic, instrumentation, vacuum system, wind tunnel, test stands, high/low pressure gas, propellant mixing/molding, and exotic fuels storage systems. Supports and advises scientists and engineers during experiment design, setup, and execution.

(f) *Performs inspections to comply with international treaties.* Performs inspections to comply with international treaties relating to nuclear weapons and associated equipment.

(g) *Performs duty as an NCO code controller.* Selects and produces ICBM code material utilizing computerized coding equipment. Safeguards, assigns, issues, and recovers critical code material. Maintains equipment and keeps records for control and accountability of ICBM codes and coded devices. Performs duty as a member of a two-person code controller team.

b. Missile and Space Systems Maintenance Craftsman (2M072).

(1) Supervises the installation, testing, troubleshooting, fabrication, operation, assembly, repair, maintenance, modification, configuration, inspection, transportation, and servicing of missiles, UAVs, spacelift boosters, payloads, R&D systems, environmental defense blast doors and valves, subsystems, components and support equipment. Directs compliance of technical, procedural, safety, security, and quality assurance standards. Determines anomaly resolution. Designs R&D systems. Supervises the launch, controlling, tracking, and recovery of Unmanned Air Vehicles (UAVs) and operates and maintains related equipment. Performs acquisition and activation functions for related systems.

(2) Duties and Responsibilities.

(a) *Perform, advise, supervise and manage resources dealing with associated missile maintenance actions at the flightline, railhead, support base, launch facility, missile alert facility, test and storage facilities.* Supervises the inspection, preparation, loading, unloading, hoisting, servicing, troubleshooting, handling, repair, checkout, removal, replacement, and adjustment of components and subcomponents. Verifies mechanical/electrical connection/disconnection of: re-entry systems, guidance and control sections, missile stages, propulsion systems and secondary ordnance devices at the launch facility. Directs the preparation of missile and launch facility for simulated launch and follow-on test and evaluation. Performs preventative maintenance inspections and electrical tests on missile, missile components, launch facility, missile alert facility, support vehicles, hydraulic, pneumatic, and pneumatic systems, and equipment. Operates special purpose vehicles and support equipment. Evaluates inspection results, and makes decisions regarding component replacement or repair. Diagnoses' recurring malfunctions, and recommends corrective action. Initiates unsatisfactory reports, failure reports, or proposed modifications. Supervises the maintenance of technical orders, and publication files. Interfaces with contractors on design of improved weapon systems, support vehicles, and equipment.

(b) *Advises on problems related to configuration, checkout, transport, assembly, installation, and inspection of boosters, and payloads, their subsystems, and support equipment.* Solves problems in transporting and assembling boosters, and payloads at spacelift facilities. Supervises the following actions: preparation of the space launch complexes for receipt, inspection and assembly of boosters, payloads, component parts, and subsystems; erection and mating of booster sections and payloads. Performs or directs the performance of preventive maintenance inspections. Evaluates inspection results, and makes decisions regarding component replacement or repair, and repair procedures. Diagnoses recurring malfunctions, and recommends corrective action. Initiates unsatisfactory reports, failure reports, or proposed modifications. Supervises the servicing, inspection, repair, maintenance, checkout, testing, and operation of support equipment. Evaluates malfunctions using technical publications, mechanical drawings, or engineering instructions and recommends corrective action. Determines proper operation of mechanical consoles and panels. Practices and supervises safety procedures to be followed in the handling of chemicals, propellants, and ordnance devices.

(c) *Assesses quality of personnel and equipment.* Inspects personnel performance, equipment, and management functions for compliance with technical data, governing directives. Submits reports to management on all quality assessment findings.

(d) *Conducts maintenance and operations training.* Conducts training of personnel prior to being task certified. Conducts recurring training to assure task proficiency.

(e) *Evaluate and performs Laboratory R&D activities.* Designs, fabricates, assembles, installs, inspects, operates, tests, troubleshoots and modifies specialized R&D systems such as: laser, energetic materials, solid/liquid propulsion, composites, optical, satellite, space structures and power, telescope, pointing and tracking, and high power microwave. Designs, maintains, modifies, and resolves problems associated with support equipment such as: data acquisition, fiber optic, instrumentation, vacuum systems, wind tunnel, test stands, high/low

pressure gas, propellant mixing/molding and exotic fuel storage systems. Supports and advises scientists and engineers during experiment design, setup, and execution. Determines budget, schedule, and technical performance requirements on projects.

(f) *Supervises the performance of inspections to comply with international treaties.* Supervises inspections to comply with international treaties relating to nuclear weapons and associated equipment.

(g) *Performs duty as an NCO code controller.* Selects and produces ICBM code material utilizing computerized coding equipment. Safeguards, assigns, issues, and recovers critical code material. Maintains equipment and keeps records for control and accountability of ICBM codes and coded devices. Performs duty as a member of a two-person code controller team.

c. Missile and Space Systems Superintendent/Chief Enlisted Manager (2M090/00).

(1) Specialty Summary. Superintends maintenance, processing, acquisition, and operation of missiles, UAVs, spacelift boosters, payloads, and associated subsystems, facilities, support and test equipment. Superintends the activities associated with specialized R&D systems. Superintends maintenance activities engaged in on- and off-equipment maintenance of strategic bomber-launched missiles, aircraft missile and bomb rotary launchers, aircraft stores management systems, and associated test equipment.

(2) Duties and Responsibilities.

(a) *Plans and organizes missile, UAV, spacelift booster, payload, air launched missile and R&D maintenance and processing activities.* Manages processing activities. Develops organizational structure to establish lines of authority, and assigns specific responsibilities. Determines materiel and personnel requirements for current and projected commitments. Establishes work procedures for effective personnel use and increased efficiency and accuracy of operation. Analyzes inspection and test reports, and recommends product improvement. Requisitions and accounts for equipment, facilities, special tools, and supplies. Coordinates missile, booster, and payload maintenance and launch processing activities with base organizations. Manages acquisition and activation activities. Monitors engineers and technicians during R&D experiments for procedural compliance. Superintends ICBM coding operations and activities at missile alert facilities.

(b) *Directs missile maintenance, booster and payload launch processing, air launched missile, and R&D activities.* Controls work flow, assigns special projects, and monitors program and special project progress. Monitors unit and individual productivity and work quality. Evaluates unit performance in terms of compliance with policies, directives, technical publications, and hazardous materials operations. Ensures conformance with prescribed efficiency, quality, and training standards. Supervises preparing and maintaining records and reports. Explains maintenance, operations, inspection, test, repair, and launch processing policies,

procedures, and technical directives. Advises supervisors of missile, UAV, and spacelift systems, facilities, and personnel capabilities to meet requirements.

(c) *Inspects missile, UAV, booster, payload, air launched missile, and R&D maintenance and processing functions.* Inspects and evaluates missile maintenance activities. Inspects and evaluates booster and payload maintenance and processing activities. Interprets efficiency and equipment reliability findings and recommends improvements. Reviews maintenance and processing data to evaluate programs and project requirements and capabilities. Analyzes unit records and reports for correcting or improving recurring malfunctions in missile, UAV, booster, and payload systems, subsystems, components, and related equipment. Coordinates inspection findings with other support agencies.

(d) *Instructs maintenance, operations and R&D functions.* Oversees the management and the integration of all training activities. Interprets and determines essential training requirements. Coordinates unit training requirements with all activities. Evaluates unit's training in terms of compliance with policies, directives and technical publications.

(e) *Supervises the performance of inspections to comply with international treaties.* Supervises inspections to comply with international treaties relating to nuclear weapons and associated equipment.

3. Skill/Career Progression. Quality training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential everyone involved in training do their part to plan, develop, manage, conduct, and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at appropriate points in their career. The following narrative and the AFSC 2M0X2 career field flowcharts identify the training career path and define training required.

a. **Apprentice (3-skill level) Training.** Initial skills training in this specialty consists of tasks and knowledge training provided in the Electronics Principles Course and Missile and Space Systems Maintenance Apprentice Course. Individuals must successfully complete these initial skills training courses to be awarded the 3-skill level.

b. **Journeyman (5-skill level) Training.** Upgrade training to the 5-skill level in the Missile and Space Systems Maintenance specialty consists of: (1) completion of mandatory requirements identified in AFI 36-2201, (2) completion of knowledge training provided in the 2M052 CDC, and (3) qualification on applicable 5-level core tasks identified in Part II, Section A3, of this plan. After award of the 5-skill level, continuation training, when available, should be utilized based on an individual's particular duty position or other needs. Continuation training is listed in, but not limited to that described in Part II, Section C, of this plan.

c. **Craftsman (7-skill level) Training.** Upgrade training to the 7-skill level in the Missile and Space Systems Maintenance specialty consists of: (1) completion of mandatory requirements identified in AFI 36-2201, (2) completion of knowledge training provided in the 2M072 CDC,

and (3) qualification on applicable 7-level core tasks identified in Part II, Section A3, of this plan. After award of the 7-skill level, continuation training, when available, should be utilized based on an individual's particular training needs. Continuation training is listed in, but not limited to that described in Part II, Section C, of this plan.

d. Superintendent (9-skill level) Training. Upgrade training to the 9-skill level as a Missile and Space Systems Superintendent is accomplished by completion of requirements identified in AFI 36-2201. No additional requirements were identified for upgrade to AFSC 2M090. Continuation training, if available, should be utilized based on an individual's particular needs.

4. Training Decisions. The CFETP was developed to encapsulate an entire spectrum of training requirements for the Missile and Space Systems Maintenance specialty using a building block approach (simple to complex). Included in the spectrum was the strategy of when, where, and how to meet the training requirements. The strategy must be apparent and affordable to make it easier to comply with and reduce duplication of training. To do this, a realignment of present training is required. The following training decisions were made at the U&TWs held at Vandenberg AFB CA, 20 - 30 Sep 93 and 31 Jul - 4 Aug 95, and an ICBM Training Conference held at Peterson AFB, CO, 21-22 Feb 96. In addition there were Training Conferences conducted 23 - 26 Mar 98 and 23 - 25 Feb 99. Most recent U&TW was conducted 16 - 17 Aug 99.

a. Initial skills: The STS was rewritten to include tasks that were previously not identified prior to the AFSC mergers effective October, 1993 and April, 1994. All initial skills tasks were reviewed to include these functions. (20 - 30 Sep 93)

b. Upgrade training: In addition to Year of Training initiatives, the following decisions were made regarding AFSC 2M0X2:

(1) 5-level upgrade - All tech school graduates will be assigned to an operational missile unit to complete 5-level core task training requirements. Core tasks for upgrade to the 5-skill level will consist of MMT tasks for either the Minuteman or Peacekeeper weapon systems. MMT training builds a foundation for subsequent progression into all other areas of the 2M0X2 career field. All applicable 5-level core task training must be completed prior to reassignment to a unit that does not possess 5-level core task training capability. (20 - 30 Sep 93)

(2) 7-level upgrade - Core tasks for upgrade to 7-level must be accomplished at an ICBM unit. Core tasks for upgrade to the 7-skill level were selected to ensure 2M0X2 personnel receive knowledge of all production workcenters that utilize 2M0X2 personnel. In order for an individual to satisfy 7 skill level core task requirements, he or she must complete all applicable core tasks identified. Exceptions to this policy are personnel assigned to Cheyenne Mountain Maintenance or Depot Storage and Handling positions. (20 - 30 Sep 93)

c. Personnel who were awarded the 5-skill level or 7-skill level prior to implementation of the Year of Training (YOT) initiatives **are not** required to complete core tasks for that awarded skill level unless required for current duty position. Individuals are highly encouraged to complete these core tasks, if possible. Personnel upgrading after the implementation of YOT initiatives

must complete all upgrade training requirements, including core tasks. This decision was based on the overwhelming training burden that would result if personnel previously awarded 5-and 7-skill levels were required to return to training. Additionally, many personnel are located at units which could not comply with current core tasks identified by this U&TW. (20 - 30 Sep 93)

Note-Personnel must complete required 7-level core tasks prior to being eligible for assignment to spacelift and R&D units, or other positions that do not have the training capability to provide required core task training.

d. Mission Ready Technician (MRT) Program: After the 2M0XX U&TW met 31 Jul - 4 Aug 95, the 2M0XX community was directed to incorporate the MRT concept in its 3-level technical training. The Air Force MRT Program is designed to shift the training burden from the operational units to the technical school by producing certified 3-level apprentice personnel directly from technical school. Upon arrival at their first duty station, a mission-ready trained apprentice may be utilized on those 3-level tasks certified at the technical school in minimum time. An ICBM MRT conference was held with representatives from all units to identify MRT 3-level tasks to be trained and certified by the technical school. Certification of these 3-level tasks by technical school instructors resulted in a significant increase in training days to the original U&TW. This and the MRT concept drove the group to reevaluate the STS requirements identified at the previous U&TW resulting in changes to the STS. All subjects and tasks were still covered; however, some were deleted from the basic course if they could be covered in the CDC. (21-22 Feb 96)

e. Mission Ready Technician (MRT) Program: After the Feb 98 AETC Trained Personnel Requirements (TPR) conference, a decision was made to revise the 2M0X1 Specialty Training Standards (STS). The existing MRT training courses, cannot produce a sufficient amount of graduates to sustain the career field. Air Force Space Command (AFSPC) redefined MRT training requirements. (23-26 Mar 98)

f. Mission Ready Technician (MRT) will now be identified as a Mission Ready Airman (MRA). All 2M0XX specialty and course training standards were reviewed and revised. Seven - level in residence courses will be discontinued at Vandenberg AFB effective Mar 99. Space Launch Maintenance Training Course will be discontinued at Vandenberg AFB effective Sep 99. (23-25 Feb 99)

g. Career Field Manager directed a review of the 2M0XX technical training courses. Career Development Courses (CDCs) were reviewed in-depth. A new Electronic Principles (EP) STS is scheduled to be implemented Oct 00. 20 AF will create a course for new shop chiefs incorporating the 532d Training Squadron's discontinued 7-level course material. (16-17 Aug 99)

5. Community College of the Air Force Academic Programs. Enrollment in CCAF occurs upon completion of basic military training. *Off duty education is a personal choice but highly encouraged.* Individuals desiring to become an Air Education and Training Command Instructor should actively pursue an associate degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools. CCAF provides the

opportunity to obtain an Associate in Applied Sciences Degree. In addition to its associate degree program, CCAF offers the following:

a. Occupational Instructor Certification. Upon completion of instructor qualification training, consisting of an instructor methods course and supervised practice teaching, CCAF instructors who possess an associates degree or higher may be nominated by their school commander/commandant for certification as an Occupational Instructor.

b. Trade Skill Certification. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels - Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.

c. Degree Requirements. The skilled (5) level must be held at the time of program completion with degree requirements for and Associate in Applied Science in Missile Maintenance Technology degree as follows:

Overall Requirements

<i>Subject</i>	<i>Semester Hours</i>
Technical Education.....	24
Leadership, Management, and Military Studies.....	6
Physical Education	4
General Education.....	15
Program Elective.....	15
Total.....	64

d. Technical Education (24 Semester Hours): A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Requests to substitute subjects/courses must be approved in advance by the Technical Branch. Refer to the CCAF catalog for Application of Courses to the Technical Education area.

Technical Core

<i>Subjects/Courses</i>	<i>Maximum Semester Hours</i>
CCAF Internship.....	16
Missile Maintenance	16

Technical Electives

<i>Subjects/Courses</i>	<i>Maximum Semester Hours</i>
Air Force Enlisted Professional Military Education	12
Computer Science	6
Corrosion Control	3
Electricity/Electronics	6
Engineering Graphics	3
Engineering Mechanics.....	3
Fluid Power.....	3
General Chemistry/Algebra-Based Physics.....	4
Heavy Equipment Operation/Maintenance	3
Hazardous Materials.....	3
Industrial Safety	3
Maintenance Management	3
Materials and Processes.....	3
Nondestructive Inspection	3
Nuclear Weapons Systems Maintenance	3
Quality Assurance	3

e. Leadership, Management, And Military Studies (6 Semester Hours): Professional military education and/or civilian management courses. The preferred method of completing Leadership, Management, and Military Studies is through attendance at an Airman Leadership School, MAJCOM NCO Academy, and/or Air Force Senior NCO Academy. However, civilian courses that emphasize fundamentals of managing human or material resources may also be applicable.

f. Physical Education (4 Semester Hours): Basic Military Training satisfies this requirement.

g. General Education (15 Semester Hours): This requirement is satisfied by application of courses accepted in transfer or by testing credit. The following is a specific breakout of requirements:

<i>Subjects/Courses</i>	<i>Semester Hours</i>
Oral Communication (Speech)	3
Written communication (English Composition)	3
Mathematics.....	3
<i>Intermediate algebra or a college-level mathematics course is required. If an acceptable mathematics course is applied as a Technical or Program Elective, a natural science course meeting general education requirements Application criteria may be applied as a General Education Requirement.</i>	
Social Science	3
<i>Anthropology, Archeology, Economics, Geography, Government, History, Political Science, Psychology, Sociology.</i>	

Humanities 3
Fine Arts (History, Criticism, and Appreciation), Foreign Language, Literature, Philosophy, Religion.

h. Program Elective (15 Semester Hours): Satisfied with applicable Technical Education; Leadership, Management, and Military Studies; or General Education subjects/courses, including natural science courses meeting general education requirements application criteria. Six semester hours of CCAF degree-applicable technical credit, otherwise not applicable to this program, may be applied.

6. **Career Field Flow Charts.** Charts depicting this career path are presented. The Career path outlines when training is required for career progression within this specialty. This is a nominal timeline for comparison purposes only.

2M0X2 MISSILE AND SPACE SYSTEMS MAINTENANCE TRAINING FLOW

6 MONTHS	<ul style="list-style-type: none"> - COMPLETE 3-LEVEL COURSES <ul style="list-style-type: none"> -- ELECTRONIC PRINCIPLES -- MISSILE MAINT TECH SCHOOL - AWARD 3-LEVEL - AWARD OF BASIC MISSILE BADGE
12 MONTHS	<ul style="list-style-type: none"> - ENROLL IN 5-LEVEL CDC - BEGIN 5-LEVEL CORE TASK TRAINING
24 MONTHS	<ul style="list-style-type: none"> - COMPLETE CDC - COMPLETE CORE TASK TRAINING
36 MONTHS	<ul style="list-style-type: none"> - PROMOTE E-4/AWARD 5-LEVEL - ADDITIONAL CONTINUATION TRAINING
48 MONTHS	<ul style="list-style-type: none"> - AIRMAN LEADERSHIP SCHOOL - TRAINER DUTIES
6.5 YEARS	<ul style="list-style-type: none"> - PROMOTION TO E-5 - BEGIN 7-LEVEL CORE TASK TRAINING - BEGIN 7-LEVEL CDCs
8 YEARS	<ul style="list-style-type: none"> - 18 MONTHS TIG AS SSGT - COMPLETE 7-LEVEL CDCs - COMPLETE CORE TASK TRAINING
11 YEARS	<ul style="list-style-type: none"> - SELECTION FOR PROMOTION TO E-6 - AWARD 7-LEVEL - NCO ACADEMY - AWARD OF SENIOR MISSILE BADGE

2M0X2 MISSILE AND SPACE SYSTEMS MAINTENANCE TRAINING FLOW

14 YEARS	- SELECTION FOR PROMOTION TO E-7 - ADVANCED TRAINING COURSES
16 YEARS	- AWARD OF MASTER MISSILE BADGE
18 YEARS	- SELECTION FOR PROMOTION TO E-8 - SENIOR NCO ACADEMY - AWARD 9-LEVEL
23 YEARS	- SELECTION FOR PROMOTION TO E-9

PART I

Section C - SKILL LEVEL TRAINING REQUIREMENTS

1. **Purpose.** The various skill levels in the career field are defined in terms of tasks and knowledge requirements for each skill level in the Missile and Space Systems Maintenance specialty. They are stated in broad, general terms and establish the standards of performance. The specific task and knowledge training requirements are identified in the STS.

2. **Missile and Space Systems Maintenance Apprentice (3-skill level).**

a. Specialty Qualifications.

(1) Knowledge. Knowledge is desirable of oxidizers and fuels properties and characteristics; basic hydraulics, pneumatics, mechanics, and electricity; and missile propulsion principles.

(2) Education. Completion of high school with courses in mathematics and physics is desirable.

(3) Training. The following requirements are mandatory for award of the 3-skill level:

(a) Completion of the in-residence Electronics Principles course.

(b) Completion of the in-residence Missile and Space Systems Maintenance Apprentice course.

(c) Initial shotgun qualification.

(4) Other. Any record of emotional instability precludes entry, award, and retention of AFSC 2M0X2. Normal color vision and depth perception as defined in AFI 48-143 is mandatory for entry into this AFSC. Eligibility for a Top Secret security clearance according to

AFI 31-501 is mandatory for award of AFSC 2M032A. Eligibility for Personnel Reliability Program certification IAW AFI 36-2104 is mandatory to complete core requirements and upgrade to the 5-skill level.

b. Training Sources/Resources. Completion of the basic Missile and Space Systems Maintenance Course at Vandenberg AFB, CA satisfies the knowledge and training requirements for the award of the 3-skill level. A list of all training courses to support education and training is in Part II, Section C of this CFETP.

3. Missile and Space Systems Maintenance Journeyman (5-skill level).

a. Specialty qualifications.

(1) Knowledge. Knowledge is desirable of oxidizers and fuels properties and characteristics; basic hydraulics, pneumatics, mechanics, and electricity; and missile propulsion principles.

(2) Education. Completion of high school with courses in mathematics and physics is desirable.

(3) Training. The following requirements are mandatory for award of the 5-skill level:

(a) Completion of mandatory requirements in AFI 36-2201.

(b) Completion of the 5-skill level CDC 2M052.

(c) Qualification on applicable 5-skill level core tasks for the assigned weapon system.

(4) Experience. Experience is mandatory in MMT maintenance tasks.

(5) Other. Any record of emotional instability precludes entry, award, and retention of AFSC 2M0X2. Normal color vision and depth perception as defined in AFI 48-143 is mandatory for entry into this AFSC. Eligibility for a Top Secret security clearance according to AFI 31-501 is mandatory for award and a Secret security clearance for retention of this AFSC. Eligibility for Personnel Reliability Program certification IAW AFI 36-2104 is mandatory to complete core requirements and upgrade to the 5-skill level.

b. Five level core tasks - All 2M032A personnel will be qualified/certified on the applicable core tasks before being awarded a 5 skill-level. Mandatory 2M052 core tasks are listed in attachment 2 for Minuteman and attachment 3 for Peacekeeper of the 2M0X2 STS.

c. Training Sources/Resources. The STS identifies all the core tasks required for qualification in the individual's weapon system. Qualified trainers provide UGT and QT.

Continuation (Advanced) training courses are available and individuals should attend based on training needs and duty position requirements. A list of all training courses to support education and training is in Part II, Section C of this CFETP.

d. Implementation. Entry into upgrade training may be initiated when an individual possesses the 3-skill level and has been assigned to the base. Then, the individual may be enrolled in the 2M052 CDC upon recommendation of the supervisor. Qualification training is initiated any time an individual is assigned duties he/she is not qualified to perform.

4. Missile and Space Systems Maintenance Craftsman (7-skill level)

a. Specialty Qualifications.

(1) Knowledge. Knowledge is mandatory of mechanical systems that apply to missiles, UAVs, spacelift boosters, payloads, Research and Development systems, associated launch systems, and aerospace ground equipment; mechanical, pneudraulic, pneumatic theory, circuitry, and schematic diagrams.

(2) Education. To assume the grade of SSgt and MSgt, individuals must be graduates of the Airman Leadership School and NCO Academy, respectively.

(3) Training. The following requirements are mandatory for award of the 7-skill level:

(a) Completion of mandatory requirements in AFI 36-2201.

(b) Completion of the 7-skill level CDC 2M072.

(c) Qualification on all applicable 7-skill level core tasks for the assigned weapon system.

(4) Experience. Qualification is mandatory as a Missile and Space Systems Maintenance Journeyman. Also, experience is mandatory in performing or supervising functions in 2M0X2 production workcenters

(5) Other. Any record of emotional instability precludes entry, award, and retention of AFSC 2M0X2. Normal color vision and depth perception as defined in AFI 48-143 for entry into this AFSC. Eligibility for a Secret security clearance according to AFI 31-501 is mandatory for award and retention of this AFSC.

b. Seven level core tasks - All 2M052 personnel will be qualified/certified on the applicable core tasks before being awarded a 7 skill-level. See the appropriate portion of the STS in part II, section C for a list of core tasks.

Note-Personnel must complete required 7-level core tasks prior to being eligible for assignment to spacelift and R&D units, or other positions that do not have the training capability to provide required core task training.

(1) 2M072 Core Tasks (Minuteman). Mandatory core tasks for 2M0X2s assigned to Minuteman duties are listed in attachment 2 of the 2M0X2 STS.

(2) 2M072 Core Tasks (Peacekeeper). Mandatory core tasks for 2M0X2s assigned to Peacekeeper duties are listed in attachment 3 of the 2M0X2 STS.

(3) 2M072 Core Tasks. Mandatory core tasks for 2M0X2s assigned to Depot Storage and Handling positions (Hill AFB) are listed in attachment 6 of the 2M0X2 STS.

(4) 2M072 Core Tasks. Mandatory core tasks for 2M0X2s assigned to Cheyenne Mountain maintenance positions are listed in attachment 8 of the 2M0X2 STS.

c. Training Sources/Resources. The STS identifies all the core tasks required for qualification in the individual's duty position. Qualified trainers provide UGT and QT. Continuation (Advanced) training courses are available and individuals should attend based on training needs and duty position requirements. A list of all training courses to support education and training is in Part II, Section C of this CFETP.

d. Implementation. Entry into upgrade training is initiated when an individual possesses the 5-skill level and has been selected for the promotion to the grade of SSgt. Qualification training is initiated any time an individual is assigned duties he/she is not qualified to perform.

5. Missile and Space Systems Superintendent (9-skill level).

a. Specialty Qualifications.

(1) Knowledge. Possess advanced skills and knowledge of ICBM, Air launched Missiles, R&D systems, and Spacelift operations.

(2) Education. To assume the grade of CMSgt, individuals must be graduates of the Senior NCO Academy.

(3) Training. Completion of mandatory requirements in AFI 36-2201.

(4) Experience. Qualification as one of the following is mandatory: Missile and Space Systems Electronics Craftsman, Missile and Space Systems Maintenance Craftsman, or Missile and Space Systems Facilities Craftsman.

(5) Other. Any record of emotional instability precludes entry, award, and retention of AFSC 2M090. Normal color vision as defined in AFI 48-143 is mandatory for entry into this

AFSC. Eligibility for a Secret security clearance according to AFI 31-501 is mandatory for award and retention of this AFSC.

b. Training Sources/Resources. A list of all training courses to support education and training is in Part II, Section C of this CFETP.

c. Implementation. Entry into OJT is initiated when an individual possesses the 7 skill level and is a SMSgt selectee. Qualification training is initiated any time an individual is assigned duties he/she is not qualified to perform.

PART I

Section D - RESOURCE CONSTRAINTS

Purpose. This section of CFETP identifies known resource constraints which preclude minimal/desired training from being developed or conducted. This section includes a narrative explanation of each resource constraint and impact statement describing what effect each constraint has on training. Also identified in this section are the resources needed to satisfy training requirements, include information such as part numbers, national stock numbers, number of units required, cost, manpower, etc. Finally, this section includes action required, identifies the OPR, and establishes target completion dates. Resource constraints will be, at a minimum, reviewed and updated annually.

None identified.

PART II

Section A - SPECIALTY TRAINING STANDARDS

1. **Purpose.** This section identifies the specific task and knowledge training requirements required for personnel to be awarded specific skill levels and perform duties in AFSC 2M0X2. This section contains:

a. Section A1 - The Proficiency Code Keys. The proficiency code key is used to indicate level of training and knowledge provided by resident training and career development courses. This proficiency code key applies to the training standards in section A2 and A3.

b. Section A2 - The Course Training Standard for the Electronic Principles Course. This course is a prerequisite for all personnel attending the in-residence Missile Systems Maintenance Apprentice course.

c. Section A3 - The STS for the 2M0X2 Missile Systems Maintenance career field. It identifies the training requirements for the 3-/5-/7-skill levels of AFSC 2M0X2. The 3-level column reflects training requirements for the Apprentice course. The 5- and 7-level CDC columns identify the knowledge requirements for development of the 5-and 7-level CDCs for the 2M0X2 career field. Attachments to the STS list the qualification tasks for specific weapon

systems/duties of the 2M0X2 career field. These attachments also identify the core tasks and any critical tasks.

2. Qualification training will be documented on the appropriate attachment of the 2M0X2 STS unless the AFCFM has approved the use of other training systems to document and manage the training of 2M0X2 personnel.

Part II Section A1

PROFICIENCY CODE KEY		
	SCALE VALUE	DEFINITION: THE INDIVIDUAL
TASK PERFORMANCE LEVELS	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
TASK KNOWLEDGE LEVELS	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)
SUBJECT KNOWLEDGE LEVELS	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)
<p style="text-align: center;">EXPLANATIONS</p> <p>* A task knowledge value may be used alone or with a task performance scale value to define a level of a specific task. (Examples: b and 1b)</p> <p>** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common in several tasks.</p> <p>- This mark is used alone instead of a scale to show that no proficiency training is provided in the course or CDC.</p> <p>X This mark is used in course columns to show that training is required but not given due to limitations in resources.</p>		

PART II

Section A2

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ELECTRONIC PRINCIPLES

Condensed Course

1. Implementation of training in support of this CTS is with the first class after 1 October 2000.
2. Purpose. This course training standard:

a. Establishes the training requirements using tasks, knowledge, and proficiency levels of training for the following courses:

PDS Code PO4 (34 days):

L3AQR2A331A 332 (PDS Code PO4)
L3AQR2A331B 332 (PDS Code PO4)
L3AQR2A331C 332 (PDS Code PO4)
L3AQR2A332 332 (PDS Code PO4)
L3AQR2A533A 332 (PDS Code PO4)
L3AQR2A533A 333 (PDS Code PO4)
L3AQR2A533B 332 (PDS Code PO4)
L3AQR2A533C 332 (PDS Code PO4)
L3AQR2M031A 332 (PDS Code PO4)
L3AQR2M031B 332 (PDS Code PO4)
L3AQR2M033A 332 (PDS Code PO4)

PDS Code PO5 (31 days):

L3AQR2A131 301 (PDS Code PO5)
L3AQR2A131 302 (PDS Code PO5)

PDS Code PO6 (7 days):

L3AQR2MO32A 701 (PDS Code PO6)

- b. Provides the basis for the development of more detailed training materials, training objectives, and training evaluation instruments for the course.
- c. Is derived from the Course Training Standard for the Electronic Principles Master Course L3ATR40020 001. The Master Course CTS permanently replaces the Electronics Fundamentals and Applications (EF&A) listing dated June 1996.

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3. Course description. This course provides training in the knowledge and skills needed to perform the duties of maintenance personnel for several AFSCs. This course also trains selected DOD and International Military personnel, and is the prerequisite for follow-on courses either at Sheppard or Vandenberg AFB. The scope of training includes safety, first aid, Direct Current (DC) principles, Alternating Current (AC) principles, semiconductors, power supplies, amplifiers, waveshaping circuits, digital circuits, computer fundamentals, and soldering. The training day for this course is an 8 hour training day for each student. The scope of training is tailored to the prerequisites of the AFSCs. Trainees must be assigned as a student in one of the following AFSCs: 2A331X, 2A332, 2A533X, 2M031X, 2M032A, or 2M033A, international students destined for 2A131 factory training, or the civilian or other military equivalent. Specific course content is identified on the attached training matrix. AFSCs identified in previous EP Training Plans but not reflected above will be trained in the EP Master Course, L3ATR40020-001, which has its own Training Plan and CTS. There is one exception. Effective 1 October 2000, the 2E631 career field will merge into the 2E632 AFSC. Therefore 2E631 training will be discontinued after 1 October 2000.

4. Qualitative requirements: Attachment 1 contains the tasks, knowledge, and proficiency levels referenced in paragraph 2. Columns are marked with a proficiency code to indicate subjects taught. Trainees without prerequisites specified in AFCAT 36-2223 cannot be expected to meet proficiency levels indicated.

Recommendations: Comments and recommendations are invited concerning quality of AETC training. Reference this CTS and address correspondence regarding changes to 37 Training Group/TTS, 1000 Mercury Drive, Lackland AFB, TX 78236-5717. Return the Field Evaluation Questionnaire (FEQ), to identify unsatisfactory performance of individual graduates. A Customer Service Information Line has been installed for the supervisor's convenience to identify graduates who may have received over or under training on task/knowledge items listed in this training standard. For a quick response to problems, call our Customer Service Information Line, DSN 473-2917, anytime day or night.

OFFICIAL

KENNETH M. FREEMAN, Colonel, USAF
Commander

JESSE JOHNSON, MSgt, USAF
Chief, Group IM

2 Attachments
1. Qualitative Requirements
2. Task Listing

Supersedes: None
Prepared by: 342 TRS/DOR
Distribution: See page i

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QUALITATIVE REQUIREMENTS

PROFICIENCY CODE KEY

	SCALE VALUE	DEFINITION: The individual
Task Performance Levels	1	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREMELY LIMITED)
	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)
	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)
*Task Knowledge	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)
	b	Can determine step by step procedures for doing the task. (PROCEDURES)
	c	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)
	d	Can predict, isolate, and resolve problems about the task. (COMPLETE THEORY)
**Subject Knowledge	A	Can identify basic facts and terms about the subject. (FACTS)
	B	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)
	C	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)

EXPLANATIONS

- * A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)
- ** A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.
- X This mark is used alone instead of a scale value to show that no proficiency training is provided in the course.
- This mark is used alone in course columns to show that training is required but not given due to limitations in resources.

Distribution:

HQ AETC/XPMRT, Randolph AFB TX
 HQ 2AF/DOP, Keesler AFB MS
 37 TRW/MQ, Lackland AFB TX;
 37 TRW/SE, Lackland AFB TX
 37 TRSS/DOR, Lackland AFB TX
 342 TRS/DORM, Lackland AFB, TX
 342 TRS/TTEP, Lackland AFB TX
 365 TRS, Sheppard AFB TX

532 TRS, Vandenberg AFB, CA

AETC FORM 60, JUL 93 REPLACES ATC FORM 60, WHICH IS OBSOLETE.

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QUALITATIVE REQUIREMENTS

	P04	P05	P06
ELECTRONICS SUPPORT SUBJECTS			
1.1. Safety	B	B	B
1.2. First Aid	B	B	B
1.3. Electrostatic Discharge (ESD) Control	B	B	-
1.4. Electromagnetic Effects (EMP/EMI)	B	B	-
1.5. Metric Notation			
1.5.1. Powers of Ten	B	B	B
1.5.2. Electrical Prefixes	B	B	B
2. USE TEST EQUIPMENT			
2.1. Analog Multimeter	2b	2b	2b
2.2. Digital Multimeter	2b	2b	2b
2.3. Oscilloscope	-	-	-
2.4. Signal Generator	-	-	-
3. BASIC CIRCUITS			
3.1. Direct Current (DC)			
3.1.1. Terms	B	B	B
3.1.2. Theory	B	B	B
3.1.3. Calculations	B	B	B
3.2. Alternating Current (AC)			
3.2.1. Terms	B	B	-
3.2.2. Calculations	B	B	-
4. BASIC CIRCUIT COMPONENTS			
4.1. Resistors			
4.1.1. Theory	B	B	B
4.1.2. Color Code	B	B	B
4.1.3. Troubleshoot	2b	2b	2b
4.2. Inductors			
4.2.1. Theory	B	B	-
4.2.2. Troubleshoot	2b	2b	-
4.3. Capacitors			
4.3.1. Theory	B	B	-
4.3.2. Troubleshoot	2b	2b	-
4.4. Resistive-Capacitive-Inductive (RCL) Circuits Theory			
4.4.1. Basic	-	-	-

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	P04	P05	P06
4.4.2. Resonant	-	-	-
4.4.3. Frequency Sensitive Filter	-	-	-
5. ELECTROMAGNETIC DEVICES			
5.1. Transformers			
5.1.1. Theory	B	B	-
5.1.2. Troubleshoot	2b	2b	-
5.2. Relays and Solenoids			
5.2.1. Theory	B	B	-
5.2.2. Troubleshoot Relays	2b	2b	-
5.3. Motor Theory			
5.3.1. Direct Current (DC)	B	B	-
5.3.2. Alternating Current (AC)	B	B	-
5.4. Generator Theory			
5.4.1. Direct Current (DC)	B	B	-
5.4.2. Alternating Current (AC)	B	B	-
5.5. Synchro/Servo			
5.5.1. Theory	B	B	-
5.5.2. Fault Isolate	b	b	-
5.6. Transducer Theory	B	B	-
6. SOLID STATE DEVICES			
6.1. Diodes			
6.1.1. Theory	B	B	-
6.1.2. Troubleshoot	2b	2b	-
6.2. Bipolar Junction Transistors			
6.2.1. Theory	B	B	-
6.2.2. Troubleshoot	2b	2b	-
6.3. Special Purpose Device Theory			
6.3.1. Zener Diode	B	B	-
6.3.2. Light Emitting Diode (LED)	B	B	-
6.3.3. Liquid Crystal Display (LCD)	B	B	-
6.3.4. Integrated Circuits (IC)	B	B	-
6.3.5. Metal Oxide Semiconductor Field Effect Transistor (MOSFET)	-	-	-
6.3.6. Operational Amplifiers	-	-	-
7. TRANSISTOR AMPLIFIER CIRCUITS			

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	P04	P05	P06
7.1. Theory	-	-	-
7.2. Stabilization	-	-	-
7.3. Coupling	-	-	-
7.4. Troubleshoot	-	-	-
8. POWER SUPPLY CIRCUITS			
8.1. Theory			
8.1.1. Rectifiers	B	B	-
8.1.2. Filters	B	B	-
8.1.3. Voltage Regulators	B	B	-
8.2. Troubleshoot	-	-	-
9. WAVE GENERATING CIRCUITS			
9.1. Theory			
9.1.1. Oscillators	B	B	-
9.1.2. Multivibrators	B	B	-
9.1.3. Waveshaping Circuits	B	B	-
9.2. Fault Isolate	-	-	-
10. DIGITAL NUMBERING SYSTEMS			
10.1. Conversions			
10.1.1. Binary	B	B	-
10.1.2. Octal	B	B	-
10.1.3. Hexadecimal	B	B	-
10.1.4. Binary Coded Decimal	B	B	-
10.2. Binary Math Operations	B	B	-
11. DIGITAL LOGIC CIRCUITS			
11.1. Theory			
11.1.1. Gates	B	B	-
11.1.2. Flip-flops	B	B	-
11.1.3. Counters	-	-	-
11.1.4. Registers	-	-	-
11.1.5. Combinational Logic Circuits	-	-	-
11.2. Troubleshoot	-	-	-
11.3. Digital to Analog (DA) and Analog to Digital (AD) Convertors Theory	A	A	-

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	P04	P05	P06
12. BASIC COMPUTER FUNDAMENTALS			
12.1. Computer Theory			
12.1.1. Hardware	B	B	-
12.1.2. Software			
12.1.2.1. Operating Systems	B	B	-
12.1.2.2. Virus Protection	B	B	-
12.1.2.3. Diagnostics	B	B	-
12.1.2.4. Applications	B	B	-
12.1.3. Peripherals	B	B	-
12.2. Network Theory			
12.2.1. Components	-	-	-
12.2.2. Types	-	-	-
12.2.3. Topologies	-	-	-
12.2.4. Communication Mediums	-	-	-
13. BASIC COMMUNICATIONS THEORY			
13.1. Antenna	B	B	-
13.2. Transmission Lines	B	B	-
13.3. Waveguides	B	B	-
13.4. Transmitters			
13.4.1. Amplitude Modulation (AM)	B	B	-
13.4.2. Frequency Modulation (FM)	B	B	-
13.5. Receivers			
13.5.1. Amplitude Modulation (AM)	B	B	-
13.5.2. Frequency Modulation (FM)	B	B	-
14. SOLDER AND DESOLDER			
14.1. Terminal Connection	2b	-	-
14.2. Printed Circuit Board (PCB)	2b	-	-
14.3. Multipin Connector	2b	-	-
14.4. Coaxial Connector	2b	-	-
15. ASSEMBLE SOLDERLESS CONNECTORS			
15.1. Crimped Connection	2b	-	-
15.2. Coaxial Connector	2b	-	-
15.3. Multipin Connector	2b	-	-

PART II
Section A3

AFSC 2M0X2
SPECIALTY TRAINING STANDARD

1. **Purpose.** As prescribed in AFI 36-2201, this STS:

a. Lists the tasks, knowledge, and technical references (TR) necessary for airmen to perform in the 3-, 5-, and 7-skill level in the Missile and Space Systems Maintenance ladder of the Missile and Space Systems Career Field. These are based on an analysis of the duties in AFI 36-2108. Those tasks marked with an asterisk (*) will be trained in the resident wartime initial skills course.

Note: Users are responsible for annotating training references to identify current references pending STS revision.

b. Shows formal training requirements. The basic STS shows the level to which task/knowledge training has been accomplished by the Technical Training Unit for courses 2M032A and 2M072, as described in ETCA, located on the HQ 2AF website. When two codes are used in the same task proficiency column, the first code is the established requirement for resident training on the task/knowledge, and the second code indicates the level of training provided in the course due to equipment shortages or other resource constraints.

c. Indicates the career knowledge provided in the 5-skill level and 7 skill level CDC. See ECI/AFSC/CDC listing maintained by the unit Enlisted Specialty Training (EST) manager for current CDCs or part II, section C of the CFETP.

d. Identifies Air Force minimum core task training requirements for award of AFSCs 2M052 and 2M072.

e. Provides OJT certification columns to record completion of task and knowledge training requirements.

f. Is a guide for development of promotion tests used in the Weighted Airman Promotion System (WAPS). Specialty Knowledge Tests (SKTs) are developed at the USAF Occupational Measurement Squadron by senior NCOs with extensive practical experience in the career fields. The test samples knowledge of STS subject matter areas judged by test development team members to be the most appropriate for promotion to higher grades. Questions are based on the study references listed in the WAPS catalog. Individual responsibilities are in AFI 36-2605.

g. Serves as a Job Qualification Standard (JQS). Trainees are trained, evaluated and qualified to the go/no go level. “Go” means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct use of procedures. This document may be automated in whole or part to reflect duty position requirements and qualifications.

Partial automation requires annotation in the CFETP of location/system used to reflect duty position requirements/qualifications.

h. Upgrade Certification Procedures: Prior to upgrade, all 2M0X2 maintenance personnel, regardless of duty position, must satisfactorily complete upgrade training requirements identified in Part I, Section B, paragraph 3b for 5-level upgrade, paragraph 3c for 7-level upgrade, and paragraph 3d for 9-level upgrade. Trainees must also meet AFSC experience requirements outlined in AFI 36-2101 and AFI 36-2108. Work centers may add local upgrade core tasks and non-mandatory tasks to the applicable attachment. Completion of non-mandatory tasks pertinent to the unit will continue to be accomplished, as tasks become available for training.

(1) Five skill level core tasks are listed in the following attachments for the duty positions shown:

- (a) Attachment 2 lists core Minuteman maintenance tasks
- (b) Attachment 3 lists core Peacekeeper maintenance tasks.

(2) Seven skill level core tasks are listed in the following attachments for the duty positions shown:

- (a) Attachment 2 lists core Minuteman maintenance tasks
- (b) Attachment 3 lists core Peacekeeper maintenance tasks.
- (c) Attachment 6 lists core Depot Storage and Handling maintenance tasks.
- (d) Attachment 8 lists core Cheyenne Mountain maintenance tasks

2. Records Documentation. Document training as follows:

a. Identification: Enter trainee, trainer, and certifying official information on the JQS identification page.

b. Certification: Certify tasks in pencil as follows:

(1) Identify tasks required for current duty position by circling applicable task numbers. If in skill level upgrade training, circle required core tasks and other required tasks (as applicable) commensurate with the required upgrade skill level. Erase all circles on task numbers not required for current duty position when upgrade action is complete. Erasing the circles does not decertify the individual on those tasks.

(2) When task training starts, enter the training start date.

(3) When the trainer and trainee agree to task proficiency, enter the completion date and both will initial the appropriate section of the JQS. If third party certification is required, i.e. core tasks, task certification occurs when the appropriate certifier determines the trainee is proficient, and initials the certifying officials block for that task. Third party certifiers are mandatory for all core tasks and MAJCOM identified critical tasks (see AFI 36-2201 for exceptions). Exceptions

are for certifiers and only apply to grade/skill level and the “someone other than the trainer” requirements. For non-core tasks, only the trainer’s initials in the trainer block are required for certification.

c. Decertification: To decertify an individual who is no longer proficient in a task, erase the trainer’s initials. For core tasks, erase the certifier’s initials. Annotate 623a with reason for decertification.

d. Recertification: Task recertification requires some level of retraining. To recertify an individual on a previously certified task, erase the start date, completion date, trainee initials, and trainer initials. Recertify following the procedures in b(2) and b(3) above.

e. Transcription: When necessary, e.g., the STS/JQS is saturated, dirty, mutilated, etc., the supervisor may transcribe the data to a new STS/JQS. Following the transcription, annotate an AF Form 623a to explain the transcription actions. The supervisor will enter his or her name and initials following the explanation. Give the old STS/JQS to the trainee to retain as training history. To transcribe data, the supervisor (or designated representative) will:

(1) Identify required tasks for current duty position by circling the applicable task number in the new STS/JQS.

(2) Have the trainee initial in the “trainee block” in the new STS/JQS.

(3) Initial in the trainer or certifier block as applicable in the new STS/JQS.

(4) For previous qualifications/certifications not required in current duty position, only transcribe the previous completion date. Ensure all completion dates are transcribed from the old STS/JQS to the new STS/JQS.

f. Tasks that are not included in the STS may be added to a local attachment, provided the same format as the STS is used. These attachments will be reviewed annually during the CFETP review to determine if these tasks should be added to the STS.

3. Proficiency Code Keys. The proficiency code key is used to indicate level of training and knowledge provided by resident training and career development courses.

4. Report unsatisfactory performance of individual course graduates using AF Form 1284 as prescribed in AFI 36-2201. Report inadequacies and suggested corrections to this STS to the 2M0XX AFCFM , 1030 Air Force Pentagon, Washington DC 20330-1030 (through the MAJCOM functional manager.) All approved changes to this CFETP will be forwarded to 532 TRS/DOAT, 597 7th St, Vandenberg AFB, CA, 93437-5305.

This STS supersedes AFSC 2M0X2 STS in CFETP 2M0X2, Parts 1 - 2, 30 June 96.

MICHAEL E. ZETTLER, Lt General, USAF
DCS/Installations & Logistics

STS Attachments: 8

1. Common 2M0XX Msl & Spc Mnx Tasks
2. ICBM Systems Mnx Tasks
3. Peacekeeper Mnx Tasks
4. ICBM FDE Mnx Tasks
5. Spacelift Mnx Tasks
6. Depot Storage & Handling Tasks
7. Laboratory Tasks
8. Cheyenne Mountain Mnx Tasks

Trainee/Trainer/Certifier Identification Table

[illegible]

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

TASK #	TASK / KNOWLEDGE ITEM	3 Lvl	5 Lvl	7 Lvl	7 Lvl
	AND TRAINING REFERENCE	CRSE	CDC	CRSE	CDC
1	CAREER LADDER PROGRESSION				
	TR: AFI 36-2101, 2M0X2 Career Field Education and Training Plan (CFETP)				
1a	Progression in career ladder 2M0X2	-	B	-	-
1b	Duties of AFSC 2M0X2	-	B	-	-
2	AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM				
	TR: AFI 91-X				
2a *	Hazards of AFSC 2M0X2	A	-	-	-
	TR: AFI 91-301				
2b	Safety	A	B	-	B
	TR: TOs 00-25-245, 21-LG118A-2-10, 21M-LGM30G-2-10 (-1)				
2c *	USAF Mishap Prevention Program	A	-	-	-
	TR: AFI 91-202, TO 31-1-141				
2d *	Missile safety	A	-	-	-
	TR: AFIs 91-107, 91-114, 91-202				
2e *	Nuclear surety	A	-	-	-
	TR: AFIs 91-104, 91-105, 91-202				
2f *	Explosive safety	A	B	-	-
	TR: AFIs 91-201, 91-202				
2g	Hazard report	A	-	-	-
	TR: AFI 91-202				
2h	Environmental compliance	-	-	-	-
2h(1)	Overview of hazardous waste	A	-	-	-
	TR: AFI 32-7041, 32-7042; 40 CFR Part 261, 262; 29 CFR Part 1910				
2h(2)	Hazardous Material	-	-	-	-
	TR: 49 CFR Part 107, 120, 172				
2h(2a)	Handler responsibilities	A	-	-	-
2h(2b)	Transportation requirements	A	-	-	-
2h(3)	Impact on environment of Ozone Depleting Chemicals (ODCs)	A	-	-	-
	TR: 40 CFR Part 82				
2h(4)	Overview of Federal Facilities Compliance Act (FFCA)	A	-	-	-
	TR: FFCA, Federal Facilities Compliance Strategy EPA/130/4-89-003				
2h(5)	Overview of Environmental Compliance Assessment and Management Program	A	-	-	-
	TR: B58AFI 32-7045				

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

2h(6)	Overview of Air Force Pollution Prevention Program (P3)	A	-	-	-
	TR: AFI 32-7080				
2h(7)	Hazardous material pharmacy concept of operation	A	-	-	-
	TR: AFI 32-7086				
2h(8)	Hazardous communication	B	-	-	-
	TR: 29 CFR Part 1910, AFOSH 161-21				
2h(9)	Polychlorinated Biphenyls (PCBs)	A	-	-	-
	TR: 40 CFR Part 761				
3	PUBLICATIONS				
	TR: AFI 37-X				
3a	Use standard publications	A	B	-	-
3b	Technical Order System	-	-	-	-
	TR: AFD 21-3, TOs 0-1-01, 0-1-02, 00-5-1, 00-5-2				
3b(1)	Description	A	B	-	-
3b(2)	Use technical orders	3c	-	-	-
3b(3)	Initiate TO improvement report	A	B	-	-
3c	CEMs	-	B	-	-
	TR: AFSPCIND 0-7, AFSPCI 32-1009				
4	MAINTENANCE MANAGEMENT				
	TR: AFD 21-1, AFIs 21-114, 21-108, 38-101, AFSPCI 21-0114, AFSPCI 21-0108				
4a	Functions and responsibilities of missile and space organizations	-	B	-	B
4b	Functions of missile/space maintenance units	-	B	-	B
4c	Deficiency reporting	-	A	-	B
	TR: TO 00-35D-54				
4d *	Hardness assurance program	A	B	-	-
	TR: AFI 32-1054, TOs 21-LG118A-2-10, 21M-LGM30G-2-31, 21M-LGM30G-2-10 (-1)				
4e	Improved Maintenance Management Program	-	B	-	B
	TR: TO 33D9-61-76-1, Document #IMMP-SIOM, Vol 1 of 1, dated 21 Dec 95, Tutorials				
4f	Reliability and maintainability	-	-	-	B
	TR: AFP 80-24				
4g	Status reporting Force Management Information System (FMIS)	-	-	-	B
	TR: AFI 21-103, MCR 55-8, AFSPCI 21-1030				
5	COMMON MAINTENANCE PRACTICES				
	TR: TOs 00-25-234, 1-1A-8, 21-LG118A-2-10				

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

5a	Use tools	3c	B	-	-
	TR: TOs 32-1-2, 32-1-101, 32-1-151, 32B14-3-1-101				
5b	Use aerospace hardware	b	B	-	B
	TR: TOs 1-1A-8, 1-1A-15				
5c	Corrosion identification	A	-	-	-
	TR: TO 1-1-2				
5d	Perform electrostatic discharge control procedures	3c	B	-	-
	TR: TO 00-25-234				
6	RESEARCH AND DEVELOPMENT				
	TR: AFI 10-201				
6a	Missions of Laboratories	-	A	-	-
6b	Missions of Test and Evaluation Center	-	A	-	-
6c	Inert gases	-	-	-	B
	TR: AFMAN 161-30, VOL II; TO 42B5-1-2				
6d	Cryogenics	-	-	-	B
	TR: AFMAN 161-30, VOL II; AFI 23-201				
6e	Laser systems	-	-	-	B
	TR: TO 31-1-141-3, AFOSH STD 161-10				
6f	Optical systems	-	-	-	B
	TR: TO 33B4-8-9-1				
6g	Vacuum systems	-	-	-	B
	TR: TO 00-25-233				
6h	Integrated system safety	-	-	-	B
	TR: AF Systems Safety Handbook				
6i	Liquid and solid propulsion systems	-	-	-	B
	TR: Titan II SLV Propulsion Subsystems and Titan IV Propulsion Systems				
6j	Propellant properties	-	-	-	B
	TR: AFMAN 161-30, VOL I & II				
6k	Clean-room standards	-	-	-	B
	TR: Federal Standard 209E, TO 00-25-203				
6l	Ordnance systems	-	-	-	B
	TR: AFI 91-201				
7	MAINTENANCE PRINCIPLES				
	TR: TO 00-25-223, 00-25-229, 1-1A-8, 33-1-19, 42E1-1-1, 42E2-1-2, 44H3-1-3				
7a	Pneumatic systems	-	-	-	-
	TR: TO 42B5-1-2				

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

7a(1)	Theory and operation	B	B	-	C
7a(2)	Read pneumatic flow diagrams	-	B	-	-
7b	Hydraulics systems	-	-	-	-
	TR: TO 42B2-1-3				
7b(1)	Theory and operation	B	B	-	C
7b(2)	Read hydraulic flow diagrams	-	B	-	-
7c	Moving and lifting heavy equipment	-	A	-	B
7d	Non-destruct testing	-	A	-	B
7e	Proofload testing	-	A	-	B
8	SPACE AND MISSILE SYSTEMS TEST/INSPECTION PROCESSES				
8a	Test and evaluation	-	-	-	B
	TR: AFI 99-103				
8b	Simulated Electronic Launch Minuteman (SELM)	-	-	-	B
	TR: TOs 21M-LGM30G-1-17, 21M-LGM30G-1-18				
8c	Simulated Electronic Launch Peacekeeper (SELP)	-	-	-	B
	TR: TO 33D9-61-108				
9	TEST EQUIPMENT				
9a	Operate test equipment	-	-	-	-
9a(1) *	Explosive Set Circuitry Test Set	3c	B	-	-
	TR: TOs 33D9-38-15-21				
9a(2)	Megohmmeter insulation tester	-	A	-	-
	TR: TOs 33A1-4-29-1, 33A1-4-35-1, 33A1-12-1006-1, 33A1-12-185-11, 33A1-12-1212-1				
9a(3) *	Colormetric gas tester	3c	B	-	-
	TR: TOs 21M-LGM30G-2-33, 21M-LGM30G-2-10 (-1), 21-LG118A-2-10				
9a(4)	MGCS certification test set	-	A	-	-
	TR: TO 21-LG118A-12-1				
9a(5)	Electronic freon leak detector	-	A	-	-
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34				
9b	Cable retraction test kit	-	A	-	-
	TR: TOs 21M-LGM30G-2-28-X, 33K-1-X, 35M1-1-101				
9c *	Leak test fixture operate	2b	B	-	-
	TR: TOs 1-1A-8, 21M-LGM30G-2-22, 33K-1-X, 35M1-1-101				
10	RAISE/LOWER EQUIPMENT	1b	-	-	-
	TR: TOs 21M-LGM30G-2-10				

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

11	MINUTEMAN III (LGM-30G)				
	TR: TOs 21M-LGM30G-1-1, 21M-LGM30G-2-33				
11a	Characteristics	A	B	-	-
11b	Motors/stages/interstages	A	B	-	-
11c	Terminal countdown sequence description	-	-	-	B
12	PEACEKEEPER (LG-118A)				
	TR: TOs 21-LG118A-1, 21-LG118A-2-28, 21-LG118A-2-34, 21-LG118A-2-41, 35M3-2-20-3				
12a	Characteristics	A	B	-	-
12b	Motors/stages/interstages	A	B	-	-
12c	Canister	A	B	-	-
12d	Reentry System	A	B	-	-
13	DELTA				
	TR: MDA Delta User's Guide; Handbook of Delta Operations; AU-18 Space Handbook				
13a	Mission	-	A	-	-
13b	Characteristics	-	A	-	B
13c	Space Launch Complex	-	A	-	B
14	ATLAS II				
	TR: Atlas DOD User's Mission Planning Guide; AU-18 Space Handbook				
14a	Mission	-	A	-	-
14b	Characteristics	-	A	-	B
14c	Space Launch Complex	-	A	-	B
15	TITAN II				
	TR: Titan II SLV Propulsion Subsystem (GenCorp Aerojet dated: 1992); AU-18 Chap 6, 14 & 15				
15a	Mission	-	A	-	-
15b	Characteristics	-	A	-	B
15c	Space Launch Complex	-	A	-	B
16	TITAN IV				
	TR: Titan IV Propulsion Subsystems (Aerojet Co. dated: January 1989); AU-18 Chap 6, 14 & 15				
16a	Mission	-	A	-	-
16b	Characteristics	-	A	-	B
16c	Space Launch Complex	-	A	-	B
17	CENTAUR				
	TR: Titan IV Propulsion Subsystems (Aerojet Co. dated: January 1989)				
17a	Mission	-	A	-	-

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

17b	Characteristics	-	A	-	B
18	INERTIAL UPPER STAGE				
	TR: Titan IV Propulsion Subsystems (Aerojet Co. dated: January 1989)				
18a	Mission	-	A	-	-
18b	Characteristics	-	A	-	B
19	SATELLITE SYSTEMS				
	TR: American Institute of Aeronautics-Astronautics Handbook; AU-18 Space Handbook; Space Operations Orientation Handbook (3rd Edition, 1 Aug 1993)				
19a	Function	-	A	-	-
19b	Characteristics	-	-	-	B
20	LAUNCH FACILITY, MISSILE ALERT FACILITY, AND SUPPORT BASE FACILITIES				
20a	Minuteman III Launch Facility	A	B	-	-
	TR: TOs 21M-LGM30G-1-1, 21M-LGM30G-2-10(-1), 21M-LGM30G-2-7-X				
20a(1) *	Enter LER (See note 5)	1b	-	-	-
20a(2) *	Enter LSB	1b	-	-	-
20a(3) *	Enter and exit Launch Tube	2b	-	-	-
20a(4) *	Exit LER	1b	-	-	-
20a(5) *	Exit LSB	1b	-	-	-
20a(6)	Perform emergency shutdown	1b	B	-	-
20a(7)	Evacuate launch facility for EWO launch condition	1b	B	-	-
20a(8)	Follow emergency procedures for electrical isolation of LSB	1b	B	-	-
20a(9)	Perform LF hostile securing	1b	-	-	-
20a(10)	Personnel Access System (PAS)	-	B	-	-
	TR: TOs 21M-LGM30F-2-19, 35M1-99-2-2				
20a(11)	Blast Doors	-	B	-	-
	TR: TOs 21M-LGM30F-112, 21M-LGM30G-2-28-X, 35M1-1-101, 35M3-11-2-1, 35M3-11-3-1				
20a(12)	Shock Systems	-	-	-	-
	TR: TOs 21M-LGM30G-2-28-X, 35M1-1-101				
20a(12a)	Mechanical	-	B	-	-
20a(12b)	Pneumatic	-	B	-	-
20a(12c)	Hydraulic	-	B	-	-
20a(13)	Launcher closure system	A	B	-	B
	TR: TOs 21M-LGM30F-112, 21M-LGM30G-2-28-X, 21M-LGM30G-2-10(-1), 35M1-1-101; CEMs 21-SM80X-2-24-X, 21-SM80X-2-26-X, 11A15-1-167-1				
20a(13a) *	Open launcher closure	2b	-	-	-
20a(13b) *	Close launcher closure	2b	-	-	-
20a(13c)	Perform destructive break in	-	B	-	-

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

20a(14)	Missile suspension system	A	B	-	B
20a(14a)	Remove explosive bolts	2b	-	-	-
20a(14b)	Install explosive bolts	2b	-	-	-
20a(15)	Umbilicals	A	B	-	B
	TR: TOs 21M-LGM30G-2-22, 11A15-1-167-1				
20a(15a) *	Disconnect the upper umbilical at the D-box	2b	-	-	-
20a(15b) *	Disconnect the upper umbilical at the missile	2b	-	-	-
20a(15c) *	Connect the upper umbilical at the missile	2b	-	-	-
20a(15d) *	Connect the upper umbilical at the D-box	2b	-	-	-
20a(15e) *	Disconnect the skirt umbilical at the D-box	2b	-	-	-
20a(15f) *	Disconnect the skirt umbilical at the missile	2b	-	-	-
20a(15g) *	Connect the skirt umbilical at the missile	2b	-	-	-
20a(15h) *	Connect the skirt umbilical at the D-box	2b	-	-	-
20a(16)	Install safing pins	2b	B	-	-
	TR: TO 21M-LGM30G-2-33				
20a(17)	Remove safing pins	2b	B	-	-
	TR: TO 21M-LGM30G-2-33				
20b	Peacekeeper Launch Facility	A	B	-	-
	TR: TOs 21-LG118A-1, 21-LG118A-2-10, 21-LG118A-2-28				
20b(1)	Missile suspension system	A	B	-	-
20b(2)	Missile Umbilical Group/Umbilical Retract Mechanism (MUG/URM)	-	B	-	-
	TR: TOs 21-LG118A-2-32, 21-LG118A-2-241				
20c	Missile Alert Facility	A	B	-	-
20d	Missile Support Base	-	B	-	-
21	MISSILE AEROSPACE VEHICLE EQUIPMENT				
	TR: TO 21M-LGM30G-2-33				
21a	MK12/12A Reentry System (RS)	A	B	-	B
21a(1) *	Inspect insulation	2b	B	-	-
21a(2) *	Remove	2b	B	-	-
21a(3) *	Install	2b	B	-	-
21a(4) *	Warhead monitor loop checkout	2b	B	-	-
21a(5) *	Electrical system checkout	2b	B	-	-
21a(6)	Load and unload	a	B	-	-
21a(7) *	Handle	2b	B	-	-
21a(8)	Transport	-	B	-	-
21b	Missile Guidance Set (MGS)	A	B	-	B
21b(1) *	Inspect insulation	2b	B	-	-

SPECIALTY TRAINING STANDARD (STS)
AFSC 2M0X2
MISSILE AND SPACE SYSTEMS MAINTENANCE

21b(2)	Repair insulation	-	B	-	-
21b(3) *	Remove	2b	B	-	-
21b(4) *	Install	2b	B	-	-
21b(5)	MGS to RS interface cable checkout	a	B	-	-
21b(6)	Remove components	2b	B	-	-
	TR: TO 11A15-1-167-1; AFSPCI 91-1005, SD 501-12				
21b(7)	Install components	2b	B	-	-
	TR: TO 11A15-1-167-1; AFSPCI 91-1005, SD 501-12				
21b(8)	Loading and unloading	a	B	-	-
21b(9)	Transport	-	B	-	-
21b(10) *	Accidental missile ignition checkout	2b	B	-	-
21c	Propulsion System Rocket Engine (PSRE)	A	B	-	B
21c(1) *	Inspect insulation	2b	B	-	-
21c(2)	Repair insulation	-	B	-	-
21c(3)	Remove	-	B	-	-
21c(4)	Install	-	B	-	-
21c(5)	Loading and unloading	-	B	-	-
	TR: TO 11A15-1-167-1				
21c(6)	Emergency handling procedures	-	B	-	-
21c(7)	Emergency transporting procedures	-	B	-	-
21c(8)	Handling	-	B	-	-
	TR: TO 11A15-1-167-1				
21c(9)	Transport	-	B	-	-
	TR: TO 11A15-1-167-1				
21d	Post Boost Control System (PBCS)	A	B	-	B
21d(1) *	Remove	2b	B	-	-
21d(2) *	Install	2b	B	-	-
21d(3)	Loading and unloading	a	B	-	-
21d(4) *	Handling	2b	B	-	-
	TR: TO 11A15-1-167-1				
21d(5)	Transport	-	B	-	-
	TR: TO 11A15-1-167-1				
21e	MK21 Reentry System	-	B	-	B
	TR: TOs 21-LG118A-2-3X, 21-LG118A-2-41				
21f	Missile Guidance and Control Set (MGCS)	-	B	-	B
	TR: TOs 21-LG118A-1, 21-LG118A-2-34, 21-LG118A-12-1				

SPECIALTY TRAINING STANDARD (STS)
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22	PAYLOAD TRANSPORTER (PT)				
	TR: TOs 21M-LGM30G-2-33, 36A9-8-49-1, 36A9-8-58-1, AFSPCI-31-1101				
22a	Function and description	A	B	-	B
22b *	Operate hoist	2b	-	-	-
22c *	Position and stabilize	2b	-	-	-
22d	Destabilize	2b	-	-	-
22e	Perform preoperational checkout	2b	-	-	-
22f	Operate Auxiliary Power Unit	2b	-	-	-
22g	Operate Environmental Control System	2b	-	-	-
22h	Operate Pneumatic System	2b	-	-	-
22i	Operate Physical Security System	2b	-	-	-
23	TRANSPORTER ERECTOR (TE)	-	B	-	B
	TR: TOs 21M-LGM30F-2-2-1, 35A2-5-36-1, 35D3-11-52-X, 35E9-266-1				
24	MISSILE TRANSPORTER (MT)	-	B	-	-
	TR: TOs 21M-LGM30F-2-2-1, 35M4-3-7-1				
25	BALLISTIC MISSILE TRAILER (BMT)	-	B	-	-
	TR: TOs 21M-LGM30F-2-2-1, 36A9-11-6-1				
26	ROCKET MOTOR TRAILER	-	B	-	-
	TR: 35M4-3-6-1, 21M-LGM30B-2-26				
27	SHIPPING AND STORAGE CONTAINER BALLISTIC MISSILE (SSCBM)	-	B	-	-
	TR: TOs 21M-LGM30F-2-2-1, 35E20-2-8-2				
28	MISSILE HANDLING EQUIPMENT	-	B	-	-
	TR: TOs 21M-LGM30F-2-2-1, 35A2-5-25-1, 35M19-3-26-1				
29	MISSILE HANDLING AND TRANSPORTING	-	B	-	-
	TR: TOs 1C-141B-9, 21M-LGM30F-2-2-1, 35D3-11-52-2				
30	ELEVATOR WORK CAGE/GUIDED MISSILE MAINTENANCE PLATFORM (GMMP)				
	TR: TOs 21M-LGM30G-2-10 (-1), 35A4-2-31-1, 35A4-4-9-1				
30a	Function and description	A	B	-	-
30b	Inspect	-	B	-	-
30c *	Install	2b	-	-	-
30d *	Remove	2b	-	-	-
30e *	Operate	3c	-	-	-
31	GUIDANCE AND CONTROL (G&C) PURGING MANIFOLD				
	TR: TOs 33K-1-X, 35M1-1-101, 36A9-8-40-1, 36A9-8-49-1, 42B5-1-2, 36A9-8-58-1				
31a	Function	A	B	-	-

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31b	Description	A	B	-	-
32	HYDRAULIC PRESSURE CHARGING SET	-	B	-	-
	TR: TOs 21-LG118A-2-28, 21M-LGM30G-2-28-X, 33K-1-X, 35M5-3-16-2				
33	PORTABLE AIR CONDITIONER	-	B	-	-
	TR: TOs 21M-LGM30F-2-2-1, 35C2-3-370-1, 35C2-3-370-14, 35C2-3-493-1, 35E9-25-3, 35E9-37-2, 35E9-270-1				
34	HYDRAULIC PUSHER SET				
	TR: TOs 21-LG118A-2-10, 21M-LGM30G-2-10 (-1), 35M27-3-11-1				
34a	Function and description	A	B	-	-
34b	Inspect	-	B	-	-
34c *	Operate	3c	-	-	-
34d	Service	-	B	-	-
35	COMPRESSED GAS CYLINDER/VALVE ASSEMBLY				
	TR: TOs 35M1-1-101, 21M-LGM30G-2-10 (-1), 21-LG118A-2-10				
35a	Function and description	A	B	-	-
35b *	Operate	3c	-	-	-
36	HYDRAULIC PURGE SET	-	B	-	-
	TR: TO 35D3-11-52-2				
37	PEACEKEEPER TRANSPORTATION AND HANDLING EQUIPMENT	-	B	-	-
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34, 35M3-8-14-1				
37a	Emplacer	A	B	-	-
37b	Air Elevator Support Trainer (AEST)	A	B	-	-
37c	Type II Transporter	A	B	-	-
38	LAUNCH EJECTION GAS GENERATOR (LEGG)	A	B	-	-
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33				
39	MISSILE AIR ELEVATOR	A	B	-	-
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-32, 21-LG118A-2-241				
40	CODE HANDLING PROCEDURES	A	-	-	-
	TR: AFSPCI 91-1005, SD 91-105				
	NOTE 1: Items in column 1 marked with an asterisk (*) are tasks that are trained in resident wartime course				
	NOTE 2: Applicable AFSC job oriented safety training is integrated throughout the courses				
	NOTE 3: Applications of the USAF technical data systems are integrated throughout the courses				

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	NOTE 4: Mission Ready Airman tasks ("3c" level) will be certified by the technical school in the applicable attachment (identified with a "3" in the core task column)				
	NOTE 5: This task requires initial shotgun qualification				

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		CORE	START	COMP	TRAINEE	TRAINER	CERTIFY
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	AF OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM						
	TR: AFI 91-X						
1a	Use safety practices when working with weapon system equipment						
	TR: TO applicable to the weapon system						
1b	Report hazards						
1c	Inspect safety equipment for serviceability						
	TR: TOs 00-25-245, 21M-LGM30G-2-10 (-1), 21-LG118A-2-10						
1d	Comply with hazardous material safety requirements						
	TR: AFOSH STD 161-21						
2	PUBLICATIONS						
2a	Use standard publications						
	TR: AFI 37-X, AFSPCI 21-0114						
2b	Use technical orders	3					
	TR: AFD 21-3; TO 00-5-1, 00-5-2						
2c	Initiate TO improvement report						
	TR: TO 00-5-1						
2d	Use supply publications/illustrated parts breakdown (IPB)						
	TR: AFMAN 67-1						
2e	Use Civil Engineering Manuals (CEM)						
	TR: AFSPCI 32-1009						
2f	Initiate CEM improvement report						
	TR: AFSPCI 32-1009						
3	MAINTENANCE MANAGEMENT						
	TR: AFD 21-1; AFI 21-114, 21-108; AFSPCI 21-0114; ACCI 21-101						
3a	Complete Maintenance Data Collection (MDC) forms						
	TR: TOs 00-20-2, 21M-LGM30F-06-X; CEM 21-SM80-06, 21M-AGM86-06, 21-AG129-06						
3b	Use Core Automated Management System (CAMS)						
	TR: AFCSM 21-556 thru 21-579						
3c	Use Improved Maintenance Management Program (IMMP)						
	TR: Applicable Software and System Manuals						

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		CORE	START	COMP	TRAINEE	TRAINER	CERTIFY
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4	TOOLS AND HARDWARE						
	TR: TOs 00-25-234, 1-1A-8, 21-LG118A-2-10, 21-LG118A-12, 21M-LGM30F-12, 21M-LGM30G-2-31, 21M-LGM30G-2-10(-1)						
4a	Use tools	3					
	TR: TOs 32-1-2, 32-2-101, 32-1-151, 32B14-3-1-101						
4b	Use aerospace hardware						
	TR: TO 1-1A-8, 1-1A-14, 1-1A-15						
5	SUPERVISION AND TRAINING						
	TR: AFI 36-2201; AFSPCI 21-0114; ACCI 10-204						
5a	Supervision						
5a(1)	Orient new personnel						
5a(2)	Conduct predispatch maintenance briefings						
5a(3)	Coordinate activities of specialists						
5a(4)	Plan work assignments						
5a(5)	Schedule work assignments						
5a(6)	Counsel personnel						
	TR: AFI 36-2907						
5a(7)	Evaluate work performance of subordinates						
	TR: AFI 36-2403						
5a(8)	Initiate action to correct substandard performance of subordinates						
	TR: AFI 36-2907						
5a(9)	Evaluate technical school graduates						
	TR: AFI 36-2201						
5b	Training						
5b(1)	Plan and supervise training programs						
5b(2)	Conduct qualification training						
	TR: AETC OJT Trainer Course						
5b(3)	Prepare lesson plans						
5b(4)	Maintain training records						
5b(5)	Certify trainee qualifications						
	TR: AETC OJT Certifier Course						
6	GENERAL MAINTENANCE						

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							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
6a	Operate portable heaters						
	TR: TO 35E7-2-11-11, Applicable manufacture's operating instructions						
6b	Operate portable pumps						
	TR: Applicable manufacture's operating instructions;						
	TOs 21M-LGM30G-2-10 (-1), 21-LG118A-2-10						
6c	Tubing maintenance						
	TR: TOs 1-1A-8						
6c(1)	Flare tubing						
6c(2)	Swage tubing						
6d	Solder/Solderless connectors						
	TR: TOs 00-25-234, 21M-LGM30F-12, 31-10-7, 1-1A-14, 1-1A-15, 34W4-1-8, 34W4-1-5, 34W4-1-7, 31-1-141-15						
6d(1)	Soft soldering						
6d(2)	Silver soldering						
6d(3)	Electrical soldering						
6d(3a)	Perform basic soldering/desoldering procedures						
6d(3b)	Perform soldering/desoldering on printed circuit boards						
6d(4)	Solderless connectors						
6d(4a)	Assemble solderless crimp connectors						
6d(4b)	Assemble solderless multipin connectors						
6e	Pneumatics						
	TR: TOs 00-25-223, 00-25-229, 1-1A-8, 33-1-19, 42B5-1-2, 42E1-1-1, 42E2-1-2, 44H3-1-3						
6e(1)	Remove components						
6e(2)	Install components						
6e(3)	Read pneumatic flow diagrams						
6e(4)	Replace hoses						
6e(5)	Replace tubing						
6e(6)	Replace seals						
6e(7)	Fabricate tubing						
6e(8)	Fabricate hoses						

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6f	Hydraulics						
	TR: TO 00-25-223, 00-25-229, 1-1A-8, 33-1-19, 42B2-1-3, 42E1-1-1, 42E2-1-2, 44H3-1-3						
6f(1)	Remove components						
6f(2)	Install components						
6f(3)	Read hydraulic flow diagrams						
6f(4)	Replace hoses						
6f(5)	Replace tubing						
6f(6)	Replace seals						
6f(7)	Fabricate tubing						
6f(8)	Fabricate hoses						
6g	Standard Test Equipment						
	TR: TO 31-1-141 Series, 33A1 Series; Applicable owner/user manuals						
6g(1)	Use analog multimeters	3					
6g(2)	Use bridge meters						
6g(3)	Use counters						
6g(4)	Use digital multimeters	3					
6g(5)	Use modulation meters						
6g(6)	Use oscilloscopes						
6g(7)	Use power meters						
6g(8)	Use power supplies						
6g(9)	Use signal generators						
6g(10)	Use voltmeters						
6g(11)	Use megohmmeters						
6g(12)	Use bonding meter						
6h	Perform operator maintenance on weapon system test equipment						
	TR: TO 33-1-27						
6i	General shop practices						
	TR: TO 00-25-234, 1-1A-14, 1-1A-15, 33D9-61-58-2, 1-1A-1, 1-1A-8						
6j	General Maintenance						
6j(1)	Repair equipment panels and cases						
6j(2)	Perform safety wiring						
6j(3)	Repair wiring						
6j(4)	Repair general connectors						

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6j(5)	Repair shielded and coaxial connectors						
6j(6)	Perform cable binding and lacing						
6j(7)	Repair crimped electrical connections						
6j(8)	Qualify solderless wire wrapping Tool Kit (TK-148/g)						
6j(9)	Perform wire wrapping						
6j(10)	Perform systematic troubleshooting						
6j(11)	Perform electronic part replacement and repair						
6j(12)	Repair electrical contact strips						
6j(13)	Perform printed circuit board handling and storage procedures	3					
6k	Perform electrostatic discharge control procedures	3					
6l	Preventive maintenance						
6l(1)	Perform visual inspections						
6l(2)	Clean electronic equipment						
6m	Emergency breathing apparatus						
	TR: TO 14P4-9-31, 14P4-10-1, 14S5-30-2, 14S5-32-114S5-11-11, 14S5-16-1, 14S5-18-1, 14P5-3-1, 14S5-29-1, 14S5-19-11						
6m(1)	Perform periodic maintenance						
6m(2)	Troubleshoot						
6m(3)	Repair						
6m(4)	Operate						
6m(5)	Self Contained Atmospheric Protective Ensemble (SCAPE)						
	TR: Local training course						
6m(5a)	Describe						
6m(5b)	Checkout/Operate						
6m(6)	Emergency response equipment						
	TR: TOs 21M-LGM30G-2-33, 21-LG118A-2-32, OO-ALC 91-1, Manufacturer's guide, wing emergency response plan						
6m(6a)	Level A suit						
6m(6a1)	Inspect						
6m(6a2)	Use						
6m(6b)	Air skid						
6m(6b1)	Inspect						
6m(6b2)	Service						
6m(6b3)	Operate						
6n	Bench stock items						
	TR: AFMAN 67-1; AFSPCI 21-0114; ACCI 21-101						

ATTACHMENT 1
AFSC 2M052/2M072 STS
COMMON 2M0XX MISSILE AND SPACE MAINTENANCE TASKS

6n(1)	Issue						
6n(2)	Inventory						
6n(3)	Maintain						
6o	Electronic Principles						
	TR: TO 31-1-141 Series						
6o(1)	Isolate faulty components						
6o(1a)	Basic circuits						
6o(1b)	Resistors						
6o(1c)	Relays/solenoids						
6o(1d)	Capacitors						
6o(1e)	Semi-conductors						
6o(1f)	Inductors						
6o(1g)	Transformers						
6p	RFI / EMI Gaskets						
	TR: TO 21M-LGM30F-112						
6p(1)	Inspect	3					
6p(2)	Repair						
6q	Terminal Swagger Kit						
	TR: TO 33A2-16-3-1						
6q(1)	Operate						
6q(2)	Service						
6r	Portable cable terminal pull tester						
	TR: TO 33A8-4-6-1						
6r(1)	Operate						
6r(2)	Service						
7	CRANE LORRAINE/DEVAULT/WARREN/NATIONAL						
	TR: TOS 36C-5-15-1, 35D36-1-102, 21M-LGM30G-2-18-3, 35D36-2-2, Owner's Manuals/LJG 20 AF-95-002, AFOSH 91-46						
7a	Inspect						
7b	Repair components						
7c	Troubleshoot components						
7d	Proofload						
8	VEHICLE AND EQUIPMENT CONTROL						
	TR: AFSPCI 21-0114						
8a	Perform preoperational checkout of						

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8a(1)	Payload Transporter (PT)						
	TR: TOs 36A9-8-49-1, 21M-LGM30G-2-33, 36A9-8-58-1						
8a(2)	Mechanical Maintenance Truck						
	TR: TOs 21M-LGM30G-2-10 (-1), 35D4-7-4-2, 36A12-24-3-1						
8a(3)	Missile Guidance and Control Set Support Truck						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34, 36A13-31-1						
8a(4)	Periodic Maintenance Van						
	TR: TO 36A9-8-56-1						
8b	Operate hoist in						
8b(1)	Payload Transporter						
	TR: TOs 36A9-8-49-1, 21M-LGM30G-2-33, 36A9-8-58-1						
8b(2)	Mechanical Maintenance Truck						
	TR: TOs 21M-LGM30G-2-10 (-1), 35D4-7-4-2, 36A12-24-3-1						
8b(3)	Missile Guidance and Control Set Support Truck						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34, 36A13-31-1						
8b(4)	Periodic Maintenance Van						
	TR: TO 36A9-8-56-1						
8c	Forms/records						
	TR: TOs 00-20-1, 00-20-2, 00-20-6, 00-20B-5, 00-25-245, 33D9-68-30-1, 36-1-58						
8c(1)	Initiate						
8c(2)	Maintain						
8d	Vehicles						
8d(1)	Perform daily inspections of						
	TR: AFI 24-301						
8d(1a)	General purpose vehicles						
	TR: TO 36-1-23						
8d(1b)	Special purpose vehicles						
	TR: TOs 35D4-7-4-2, 36A9-8-49-1, 36A12-24-3-1, 36A13-31-1, 36A9-8-58-1						
8d(2)	Track vehicle status/location						
8d(3)	Schedule vehicles for inspection/repair						
8e	Equipment						
8e(1)	Store/Issue equipment						
8e(2)	Track equipment status/location						

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8f	Nitrogen bottles						
	TR: TO 36A9-8-49-1, 36A9-8-58-1, 42B5-1-1-2						
8f(1)	Install in purge manifold						
8f(2)	Remove from purge manifold						
8f(3)	Drain						
8g	Perform self test on						
8g(1)	Multimeter						
	TR: TO 33A1-12-2-1, 33A1-12-933-1, 33A1-12-1059-1; Applicable owner/user manual						
8g(2)	Explosive set circuitry test set						
	TR: TO 33D9-38-15-1, 33D9-38-15-21						
8h	Cylinder gauge assembly						
	TR: TO 42B-1-12						
8h(1)	Connect						
8h(2)	Operate						
8i	Configure vehicles with equipment for the following:						
	TR: Applicable weapon system TO; configuration load lists						
8i(1)	MMT dispatches						
8i(2)	EMT dispatches						
8i(3)	FMT dispatches						
8i(4)	PNEU dispatches						
8j	Equipment recovery						
	TR: TO 00-24-245, 1-1A-8, 00-25-234, 11N-HRV-5022-2						
8j(1)	Inspect equipment						
8j(2)	Repair equipment						
8j(3)	Process equipment						
9	TRAINER MAINTENANCE OPERATION						
9a	Launch Facility trainer						
9a(1)	AN/GSQ-T8 and AN/GSQ-T9						
	TR: TO 43D2-3-27-1						
9a(1a)	Perform startup, shutdown, emergency shutdown, and startup after inadvertent shutdown						
9a(1b)	Perform inspection and lubrication of trainer						
9a(1c)	Perform checkout, trouble analysis and repair of the following trainer unique equipment						
9a(1c1)	Security system						
9a(1c2)	OGE power and systems						

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9a(1c3)	Communication system						
9a(1c4)	Instructor control panel						
9a(1c5)	Ground G&C liquid cooling system						
9a(1c6)	Distribution box						
9a(1c7)	Simulated environmental control system						
9b	AN/GSQ-T10, AN/GSQ-T13, and AN/GSQ-T41						
	TR: TO 43D2-3-81-1, 43D2-3-55-1						
9b(1a)	Perform startup, shutdown, emergency shutdown, and startup after inadvertent shutdown						
9b(1b)	Perform inspection and lubrication of trainer						
9b(1c)	Perform checkout, trouble analysis and repair of the following trainer unique equipment						
9b(1c1)	Security system						
9b(1c2)	OGE power and systems						
9b(1c3)	Communication system						
9b(1c4)	Instructor control panel						
9b(1c5)	Ground G&C liquid cooling system						
9b(1c6)	GMSR system						
9b(1c7)	Distribution box						
9c	Launch Facility trainer (A/F 24A-T2)						
	TR: TO 43D2-10-3-1, 43D2-10-3-2						
9c(1)	Inspect trainer						
9c(2)	Repair trainer						
9c(3)	Lubricate trainer						
9c(4)	Perform startup, shutdown and emergency shutdown						
9d	Launch Facility operational support equipment (AF 24A-T4)						
	TR: TO 43D2-10-3-1, 43D2-10-3-2						
9d(1)	Inspect						
9d(2)	Repair						
9d(3)	Perform startup, shutdown and emergency shutdown						
9e	Training guided missile set (A/E37A-T47)						
	TR: TO 43D2-3-18-1						
9e(1)	Perform checkout, trouble analysis, and repair of trainer						
9e(2)	Perform inspections						
9f	Perform checkout, trouble analysis, and repair of code change verifier set (AN/DJW-36T1A)						
	TR: TO 43D2-3-18-1						

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9g	Missile Guidance Set trainer (AN/DJW-36T1)						
	TR: TO 43D2-3-73-1						
9g(1)	Perform checkout, trouble analysis, and repair						
9g(2)	Perform inspections						
9h	Propulsion system rocket engine trainer (A/A44A-4T1)						
	TR: TO 43D2-3-72-1						
9h(1)	Perform checkout, trouble analysis, and repair						
9h(2)	Perform inspections						
9i	Control monitor procedures trainer (AN/GSQ-T46/T47/T48/T49)						
	TR: TO 43D2-3-93-1						
9i(1)	Operate trainer						
9i(2)	Perform installation, adjustment, checkout, trouble analysis, inspection, and repair						
9j	Environmental control system/power procedures trainer (A/F37FU-T19/T22/T24/T25)						
	TR: TO 43D2-3-84-1, 43D2-3-89-1, 43D2-3-91-1, 43D2-3-92-1						
9j(1)	Perform startup, shutdown, and emergency shutdown						
9j(2)	Perform checkout, trouble analysis, repair, adjustment, and inspection of the following trainer unique equipment						
9j(2a)	Instructor control panel						
9j(2b)	Intercommunication system						
9j(2c)	Load bank						
9j(2d)	Simulated electronic rack						
9j(2e)	DC power supply PS-500						
9j(2f)	Transfer control panel						
9j(3)	Perform checkout trouble analysis, repair, adjustment, and inspection of trainer unique circuitry/mechanical devices						
9k	Perform checkout, trouble analysis, and repair of Minuteman III reentry system trainer (A/E32U-T4)						
	TR: TO 43D2-3-67-1						
9l	Missile guidance and control set (P/N 14900-201-1)						
	TR: TO 43D32-2-3-1						
9l(1)	Inspect						
9l(2)	Repair						
9m	Operate digital computer system model PC380-AA						
	TR: TO 43D2-10-3-1, 43D2-10-3-2						
9n	Sump pump trainers, Minuteman/Peacekeeper (A/F 374-T25)						
	TR: CEM 21-SM80B-2-24-4, 21-LG118A-2-28, 43D2-3-92-1, 43D2-3-97-1, 43D2-3-84-1						

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9n(1)	Inspect/operate						
9n(2)	Perform checkout						
9n(3)	Troubleshoot						
9n(4)	Repair						
9o	Third Stage Trainer						
	TR: TO 21MLGM30F-2-17-5						
9o(1)	Checkout						
9o(2)	Troubleshoot						
9o(3)	Repair						
9o(4)	Inspect						
9p	Operate Code Change Verifier Simulator (SM-876/G)						
	TR: TO 43D2-3-18-1						
10	QUALITY ASSURANCE						
10a	Technical data						
	TR: AFPD 21-3; AFSPCIs 10-204, 21-0114, 21-0108, ACCI 21-101, TOs 00-5-1, 00-5-2						
10a(1)	Review/process AFTO Forms 22 and AFSPC Form 272						
10a(2)	Review all new and revised technical data and standard publications for completeness and technical accuracy						
10a(3)	Review supplements and maintenance OIs for accuracy, intent, and necessity						
10b	TCTO, MCLs, and modifications						
	TR: AFSPCIs 10-204, 21-0108, 21-0114, ACCI 21-101						
10b(1)	Review for applicability, training, supplies, and equipment requirements						
10b(2)	Determine sampling size and perform random inspections						
10b(3)	Conduct final review of TCTO/MCLs submitted by Logistics Group						
10c	Management inspections						
	TR: AFSPCIs 10-204, 21-0108, 21-0114, ACCI 21-101						
10c(1)	Conduct activity inspections						
10c(2)	Conduct special inspections						
10d	Hardware inspections						
	TR: AFSPCIs 10-204, 21-0114						
10d(1)	Conduct hardware equipment inspection						
10d(2)	Conduct hardware acceptance inspection						
10e	Proficiency evaluations						
	TR: AFSPCIs 10-204, 21-0108, 21-0114						

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10e(1)	Conduct personnel proficiency evaluations						
10e(2)	Conduct proficiency verification evaluations						
10e(3)	Conduct trainer proficiency evaluations						
10e(4)	Conduct RIVET MILE observations						
10f	Inspection reports						
	TR: AFSPCIs 10-204, 21-0108, 21-0114, ACCI 21-101						
10f(1)	Document inspections						
10f(2)	Prepare inspection reports						
10g	Evaluate deferred discrepancies						
	TR: AFSPCIs 10-204, 21-0114						
10h	Training						
	TR: AFSPCI 21-0114						
10h(1)	Conduct MEP orientation course						
10h(2)	Conduct DR course						
10h(3)	Conduct production inspector course						
10h(4)	Conduct technical data course						
	TR: TO 00-5-1, 00-5-2						
10i	Deficiency Reporting						
	TR: TO 00-35D-54; AFMAN 67-1						
10i(1)	Identify deficiencies						
10i(2)	Process deficiency reports						
11	<i>MISSILE MAINTENANCE OPERATIONS CENTER (MMOC)</i>						
11a	Understand security enhancement procedures and site security procedures						
	TR: AFSPCIs 21-0114, 31-1101						
11b	Use the maintenance priority system						
	TR: AFSPCI 21-0114						
11c	Accept, evaluate, and respond to reports from LFs/MAFs						
	TR: TOs 21M-LGM30X-2-1-X, 21-LG118A-2-1						
11d	Monitor, update, and delete maintenance data for priorities 1 - 4						
	TR: AFSPCI 21-0114; TO 33D9-61-76-1						
11e	Coordinate with Material Control on priority changes, PMCS, NMCS, and MICAP conditions						
	TR: AFSPCI 21-0114						
11f	Coordinate and document maintenance on and off base						
	TR: AFSPCI 21-0114						

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11g	Coordinate unscheduled dispatches						
	TR: AFSPCI 21-0114; TO 33D9-61-76-1						
11h	Monitor critical equipment and vehicle status						
	TR: AFSPCI 21-0114; TO 33D9-61-76-1						
11i	Coordinate and document cannibalization procedures						
	TR: TO 00-2-2, 33D9-61-76-1; AFSPCI 21-0114						
11j	Perform EWO actions						
	TR: AFSPCI 21-0114; SRR OPLAN 55; Local wing OPLANs						
11j(1)	Senior controller						
11j(2)	Weapons system controller						
11k	Use procedural, situational, and EWO checklists to						
	TR: AFSPCI 21-0114						
11k(1)	Coordinate disaster response actions						
	TR: Local OPLAN directive						
11k(2)	Coordinate movement of and emergency procedures for						
11k(2a)	Stage IV						
	TR: Local OPLAN directive						
11k(2b)	PSRE						
	TR: Local OPLAN directive						
11k(2c)	Reentry Systems						
	TR: Local OPLAN directive; AFSPCI 31-1101						
11k(2d)	Missile						
	TR: Local OPLAN directive						
11k(3)	Perform actions in support of Missile Potential Hazard (MPH) conditions						
	TR: AFSPCI 21-0114						
11l	Coordinate with BCE on RPIE maintenance requirements and interruptions of normal commercial power						
	TR: AFSPCI 21-0114						
11m	Coordinate and document airborne launch and control systems tests						
	TR: ALCC Log; TOs 21M-LGM30X-2-1-X, 21-LG118A-2-1						
11n	Coordinate and document code change action						
	TR: AFSPCI 91-1005; TOs 21M-LGM30G-2-1-X, 21-LG118A-2-1						
11o	Perform actions required of severe weather, snow, ice, and flood control plans						
	TR: Local OPLAN directives						

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11p	Perform support battle staff maintenance duties						
	TR: Local OPLAN directives						
11q	Report wing status						
	TR: AFSPCI 21-0103; TO 33D9-61-76-1; MCR 55-8						
11r	Use STU III						
	TR: Operating Manual						
12	<i>PLANS AND SCHEDULING</i>						
	TR: AFSPCI 21-0114						
12a	Planning						
12a(1)	Plan, coordinate, and compile maintenance forecasts						
12a(2)	Plan and coordinate						
12a(2a)	SELM/SELP						
12a(2b)	Code change						
12a(2c)	TCTO/MCL modification program						
12a(2d)	EWO generation meeting						
12a(2e)	Periodic maintenance program						
12a(2f)	RIVET Mile programs						
12a(2g)	Perform AVDO Functions						
12b	Scheduling						
12b(1)	Plan and schedule the use and maintenance of vehicles and equipment						
12b(2)	Coordinate jobs in conjunction with Job Control using appropriate work center requirements						
12b(3)	Develop daily work packages						
12b(4)	Conduct daily scheduling meetings						
13	<i>BRIEFING/DEBRIEFING</i>						
	TR: AFSPCI 21-0114						
13a	Brief work packages, site discrepancies, current road and weather conditions, and related information to						
13a(1)	On base shop personnel						
13a(2)	Dispatching personnel/teams						
13b	Debrief work packages, site discrepancies, and related information from						
13b(1)	On base shop personnel						
13b(2)	Dispatching personnel/teams						
13c	Assign, verify, and change maintenance priorities using the maintenance priority system						

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13d	Forward LF site inspections and inventory forms to the proper agencies for review						
13e	Maintain currency of record copy of Site Workload Requirements/ Equipment Workload Requirements (SWR/EWR)						
13f	Perform SWR/EWR reconciliations with applicable agencies						
14	TECHNICAL ENGINEERING						
14a	Use technical data, special drawings, engineering data, and other data as applicable						
	TR: Special contractor data; depot instructions; CE technical data; "as built" drawings; engineering data; Inertial Performance Data (IPD); Launch Facility Activity Data (LFAD)						
14b	Conduct engineering studies						
	TR: AFSPCI 21-0114; Applicable technical data						
14c	Evaluate applicable Engineering Change Proposals (ECPs) and Facility Change Proposals (FCPs)						
	TR: AFSPCI 21-0114; Applicable technical data						
14d	Perform technical assistance and/or analysis for system effectiveness						
	TR: Applicable technical data						
14e	Perform technical engineering EWO planning duties						
	TR: Local directives						
14f	Perform Disaster Control Group Team duties						
	TR: Local O-Plan directives						
14g	System anomalies						
	TR: Applicable technical data						
14g(1)	Troubleshoot						
14g(2)	Use special engineering test equipment						
14g(3)	Document faults and dispatches						
15	TO LIBRARY						
	TR: RM 1103; TOs 00-5-1, 00-5-2-2, 00-5-2-102, 00-5-17						
15a	Maintain and generate products from ATOMS data base						
15b	Process and control technical order, CEM , and CPIN distribution						
15c	Maintain initial distribution requirements						
15d	Perform routine, annual, and other required checks						
15e	Post TO						
15e(1)	Revisions						
15e(2)	Changes						
15e(3)	Supplements						

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15e(3a)	Safety						
15e(3b)	Operational						
15e(3c)	Routine						
15e(3d)	TOPS						
15e(3e)	ITPS						
15e(3f)	TOFCN/VB pages						
15f	Post CEM						
15f(1)	Revisions						
15f(2)	Changes						
15f(3)	CEMICs						
15g	A-Page TO, CEM						
15h	Maintain task documents						
15h(1)	Revision and supplements						
15h(2)	RM 150 Change requests						
15h(3)	RM 150 logs						
15i	Maintain other support documents						
15i(1)	CPIN						
15i(2)	Task requirement documents						
15i(3)	Task flow documents						
15j	Issue/sign-in TO, CEM, and dispatch kits						
16	MAINTENANCE PROGRAMS						
	TR: AFIs 38-101, 38-201; AFSPCI 21-0114						
16a	Manpower						
16a(1)	Monitor adequacy of assigned and authorized positions						
16a(2)	Advise maintenance managers of overall manpower positions						
16a(3)	Initiate manpower change requests						
16b	Mission Support Equipment (MSE)						
	TR: AFMAN 67-1						
16b(1)	Monitor authorized and assigned MSE						
16b(2)	Ensure MSE is requisitioned by the appropriate custodian						
16b(3)	MSE allowance authorization change request						
16b(3a)	Review, evaluate, and coordinate						
16b(3b)	Approve/Disapprove						
16b(4)	Complete allowance document files						
16b(5)	Plan and accomplish acquisition/deletion of MSE for system modifications						

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16b(6)	Assist equipment custodians						
16b(7)	Monitor Maintenance Complex CA/CRLs						
16c	Facility management						
16c(1)	Manage facility program						
16c(2)	Monitor and act upon requests for new/additional facilities or alterations of existing facilities						
16c(3)	Coordinate with work centers						
16d	Resource management						
16d(1)	Monitor and control expenditure of funds						
16d(2)	Plan and budget for financial requirements						
16d(3)	Add financial requirements to long range plans						
16e	OPLAN monitor						
16e(1)	Develop, coordinate, and distribute OPLANs within the maintenance complex						
16e(2)	Coordinate and review						
16e(2a)	OPLANs from outside agencies						
16e(2b)	Feasibility studies						
16e(2c)	Host-tenant and Interservice Support Agreements						
16f	Review/Update/Maintain LG Battle Staff checklists						
17	ICBM CODES VAULT						
17a	Lock/Alarm class A vault door						
	TR: AFI 31-209; TO 00-20F-2; SD 501-12, AFSPCI 91-1005						
17b	Maintain security of division containers, locks/combinations						
	TR: AFPD 31-1, 31-4; AFI 31-401						
17c	Maintain visitor control						
	TR: SD 501-12, AFSPCI 91-1005						
17d	Maintain code controller operations records						
	TR: SD 501-12, AFSPCI 91-1005						
17e	Comply with system control/requirements for						
	TR: SD 501-12, AFSPCI 91-1005						
17e(1)	WCPS						
17e(2)	20 year spares						
17e(3)	HCVE						
17e(4)	Master tapes/cartridges/discs						
17e(5)	LCP/keys						
17e(6)	LECG/EP (LG118A)						

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17e(7)	LEP						
17e(8)	CCV/CSD(M)						
17e(9)	CCV/SCD (LG118A)						
17e(10)	P Plug						
17e(11)	KVP (LG118A)						
17e(12)	LFLC						
17e(13)	MCLC/LCLC/KCLC (LG118A)						
17e(14)	LFOC						
17e(15)	WSC/MCG Pen C/D Tapes (LG118A)						
17e(16)	Status Authentication System components						
17e(17)	Program tapes/cartridges/discs						
17e(18)	Target materials and execution plans						
	TR: AFI 10-1102						
17e(19)	WSC (LG118A)						
17e(20)	MCG (LG118A)						
17e(21)	LVP/COOP panel/keys (LG118A)						
17e(22)	TDIs						
17e(23)	CSD(G)						
17e(24)	IMU tapes						
17e(25)	GRP MGS Parameters data						
17e(26)	MGCS parameter tapes (LG118A)						
17e(27)	CTU (C631A)						
17e(28)	LCSC (LG118A)						
17e(29)	LCMU (LG118A)						
17e(30)	Tape transport (C-164A)						
17e(31)	MCU						
17e(32)	MGS computer						
17e(33)	MGC Computer (GRP)						
17e(34)	MGCS computer (LG118A)						
17e(35)	WCPS computer						
17e(36)	Sumcheck controls						
17e(37)	Off base training LF						
17e(38)	Test components						
17e(39)	Code change procedures						
17e(40)	SELM						

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17e(41)	SELP (LG118A)						
17e(42)	Encryption PROMS						
17e(43)	Failed "Red Sensitive" WCPS console spares						
17e(44)	WCPS APM (KIV-42) (LG118A)						
17e(45)	LF APMs (KIV-42) (LG118A)						
17f	Documentation						
	TR: AFI 33-322, 37-138, SD 501-12, AFSPCI 91-1005						
17f(1)	Establish and maintain files						
17f(2)	File and locate records						
17f(3)	Classify and control records						
17f(4)	Maintain component control records						
17f(5)	Maintain WCPS operation records						
17f(6)	Maintain receipt/disposition records						
17g	Follow emergency procedures for						
17g(1)	Possible Code Compromise (PCC)						
	TR: SDs 501-11, 501-12, AFSPCI 91-1005						
17g(2)	Two-person concept violations						
	TR: AFI 91-101, 91-104						
17g(3)	Single flight/ECC						
	TR: AFI 91-114; SD 501-11						
17g(4)	Lateral coding						
	TR: SD 501-11						
17g(5)	Emergency evacuation/destruction						
	TR: SD 501-11						
17g(6)	Violations of code handling procedures						
	TR: SDs 501-11, 501-12, AFSPCI 91-1005						
17g(7)	Possible compromise to Tamper Detection Indicator (TDI) technology						
	TR: SDs 501-11, 501-12, AFSPCI 91-1005						
17h	Code components, programs, and misc. materials						
	TR: SD 501-12, AFSPCI 91-1005						
17h(1)	Receipt for materials						
17h(2)	Store materials						
17h(3)	Inventory materials						
17h(4)	Dispose of materials						
17h(5)	Transfer materials						

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17h(6)	Select and assign materials for						
17h(6a)	WCPS use only						
17h(6b)	Squadron use						
17h(6c)	LCC use						
17h(6d)	LF use						
17h(7)	Monitor availability of materials						
17h(8)	Identify, classify, and mark materials						
	TR: AFI 31-401						
17i	Field requirements						
	TR: SD 501-12, AFSPCI 91-1005						
17i(1)	Operational/test code configuration						
17i(1a)	Monitor code requirements/status						
17i(1b)	Coordinate job requirements						
17i(1c)	Maintain work status boards						
17i(2)	Team dispatch/recovery						
	TR: SD 501-12, AFSPCI 91-1005						
17i(2a)	Prepare materials/equipment for issue						
17i(2b)	Identify and brief team						
17i(2c)	Apply issue restrictions						
17i(2d)	Recover materials						
17i(3)	Status of Field Teams						
17i(3a)	Monitor transport of material						
17i(3b)	Monitor transfer of material						
17i(3c)	Monitor field storage of material						
17i(3d)	Monitor installation of materials						
17i(3e)	Validate CMSC from LF						
17i(3f)	Validate VN from LF						
17i(3g)	Validate WSC/MCG CMCC from LCC						
17i(3h)	Install/inspect/remove TDIs						
17j	Equipment configuration						
	TR: TO 31X8-2-2-1						
17j(1)	Load/unload MTC						
17j(2)	Load/unload punched mylar tape						
17j(3)	Install/remove LECG test adapter						
17j(4)	Install/remove LECG/EP						

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17j(5)	Install/remove LEP						
17j(6)	Install/remove MCU and reset tamper mechanism						
17j(7)	Install/remove MCU (MCU encoder)						
17j(8)	Install/remove C-164A tape transport						
17j(9)	Install/remove WSC test adapter						
17j(10)	Install/remove WSC processor drawer (LG118A)						
17j(11)	Install/remove WSC memory drawer (LG118A)						
17j(12)	Install/remove MCG test adapter						
17j(13)	Install/remove MCG controller-synchronizer (LG118A)						
17j(14)	Install/remove MCG drum (LG118A)						
17j(15)	Degauss MTC/7-track/9-track magnetic tape						
	TR: TO 33D9-104-31-2						
17j(16)	Install/remove CSD(G) test adapter						
17j(17)	Install/remove CSD(G) (Code verifier)						
17j(18)	Apply 7/9-track magnetic tape BOT/EOT markers						
17j(19)	Load/place on-line /unload 7/9-track magnetic tape						
17j(20)	Install/remove LCP verifier/test adapter						
17j(21)	Install/remove P Plug test adapter						
	TR: TO 31X8-2-2-2						
17j(22)	Install/remove KVP test adapter (LG118A)						
	TR: TO 31X8-2-2-2						
17j(23)	Install/remove removable disc						
17j(24)	Load KG84A						
17j(25)	Load/adjust/unload printer paper						
17j(26)	Load/remove printer ribbon cartridge						
17k	Equipment checkout						
	TR: TO 31X8-2-2-1						
17k(1)	Clean CTU read/write head						
17k(2)	Inspect MTC						
17k(3)	Condition MTC						
17k(4)	Inspect/clean read head and lamp aperture						
17k(5)	Clean MTU tape deck						
17k(6)	Comply with electrostatic discharge requirements						
	TR: TO 00-25-234						
17k(7)	Perform CCV self test						

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17k(8)	Perform MCU functional test						
	TR: TO 31X8-2-2-1						
17l	Shielded enclosure						
	TR: TO 31X8-2-2-1						
17l(1)	Perform SE visual inspection						
17l(2)	Perform SE fire alarm test						
17l(3)	Perform SE environmental test						
17l(4)	Perform SE air pressure and door seal test						
17l(5)	Perform SE communications test						
17m	WCPS power						
	TR: TO 31X8-2-2-1						
17m(1)	Start-up WCPS - normal start procedure						
17m(2)	Start-up WCPS - cold start procedure						
17n	CCOS executive functions						
	TR: TO 31X8-2-2-1, 31X8-2-2-2						
17n(1)	Perform						
17n(1a)	Computer subsystem test						
17n(1b)	CRT/keyboard terminal test						
17n(1c)	Power supplies/ADC test						
17n(1d)	Disc assembly test						
17n(1e)	Line printer test						
17n(1f)	Tape transport test						
17n(1g)	Cartridge drive unit test						
17n(1h)	9-track MTU test						
17n(1i)	KVP interface test (LG118A)						
17n(1j)	7-track MTU test						
17n(1k)	Isolation circuit test						
17n(1l)	Digital clock test						
17n(1m)	KG84A/modem comm link test						
17n(1n)	P-Plug adapter test						
17n(1o)	MCU encoder test						
17n(1p)	Force mod/Peacekeeper LCP test						
17n(1q)	Wing IX LCP test						
17n(1r)	LECG interface test						
17n(1s)	CSD(G) interface test						

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17n(1t)	KIV-42 interface test (LG118A)						
17n(1u)	KI-22 interface test						
17n(1v)	MCG interface test						
17n(1w)	CCV interface test						
17n(1x)	MSD/L interface test (LG118A)						
17n(1y)	WSC interface test						
17n(1z)	REACT BS/L test						
17n(1aa)	REACT FDD test						
17n(1ab)	Self test						
17n(1ac)	End item load						
17n(2)	Display equipment status						
17n(3)	Display/reset log file						
17n(4)	Pack system disc						
17n(5)	Prepare new disc						
17n(6)	Display disc ID						
17n(7)	Transmit data via link						
17n(8)	Receive data via link						
17n(9)	Edit link control files						
17n(10)	Perform manual recordkeeping						
17n(11)	Relog (change operator)						
17n(12)	Prepare PVS backup tape						
17n(13)	Verify DC300 program copies						
17n(14)	Verify 9-track program copies						
17n(15)	Select commanded overwrite						
17n(16)	Perform media to media conversion						
17n(17)	Log off (exit) systems						
17n(18)	Inhibit operator input print						
17n(19)	Enable operator input print						
17n(20)	Perform console shutdown						
17n(21)	Change KI-22 keying variable						
17n(22)	Initialize REACT BS/L HDA						
17n(23)	Verify reel to reel tape copies						
17n(24)	Enable telephone						
17n(25)	Convert 9-track to 7-track tapes						
17n(26)	Backup system disk						

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17n(27)	Format disc in data drive						
17o	Display main menu (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17p	Accomplish master data control (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17p(1)	Load A/B cartridge						
17p(2)	Change ITSC pen data						
17p(3)	Load pen data						
17p(4)	Load wing code disc						
17p(5)	Perform KI-22 key change						
17p(6)	Assign pen data to LCF						
17p(7)	Assign pen data to LF						
17p(8)	Display master data						
17p(9)	Load/delete P-Plug						
17p(10)	Rekey KIV-42 (LG118A)						
17p(11)	Assign L prime data (LG118A)						
17p(12)	Load L prime data (LG118A)						
17p(13)	Load F data (LG118A)						
17p(14)	Load/delete KVP (LG118A)						
17p(15)	Load/replenish I code data (REACT)						
17p(16)	Load GRP I code data						
17p(17)	Prepare end item tapes						
17q	Establish support data						
	TR: TO 31X8-2-2-1						
17q(1)	Load MM III WS133AM OGP						
17q(2)	Load MM III WS133B OGP						
17q(3)	Load MM III OFP						
17q(4)	Load MM III overwrite						
17q(5)	Load execution plan						
17q(6)	Load flight constants						
17q(7)	Load OEP						
17q(8)	Load IMU tape						
17q(9)	Load LF offload tapes						
17q(10)	Load GRP OGP/OFP data						
17q(11)	Load GRP MGS parameter data						

ATTACHMENT 1
AFSC 2M052/2M072 STS
COMMON 2M0XX MISSILE AND SPACE MAINTENANCE TASKS

17q(12)	Load targeting tape						
17q(13)	Load LF master data						
17q(14)	Load MCG tapes (LG118A)						
17q(15)	Load PK OGP/OFP (LG118A)						
17q(16)	Load mission parameters (LG118A)						
17q(17)	Load MGCS parameters (LG118A)						
17q(18)	Load launch control program (LG118A)						
17q(19)	Load POEP tapes (LG118A)						
17r	Generate and verify data (WMAP/WPAP) for						
	TR: TO 31X8-2-2-1						
17r(1)	WSC Pen C/D tape (LG118A)						
17r(2)	MCG Pen C/D tape (LG118A)						
17r(3)	Fixed data cartridge						
17r(4)	LFLC variable data						
17r(5)	Complete load LFLC (GRP)						
17r(6)	Code change LFLC (GRP)						
17r(7)	Pen D LFLC (GRP)						
17r(8)	LFOC variable data						
17r(9)	Wing code disk						
17r(10)	MECA LFLC (LG118A)						
17r(11)	Keys/codes LFLC (LG118A)						
17r(12)	LCSC LFLC (LG118A)						
17s	Perform the sum checks (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17s(1)	MM CMSC						
17s(2)	GRP CMSC						
17s(3)	WSC CMCC						
17s(4)	MCG CMCC						
17s(5)	LCSC CMSC (LG118A)						
17s(6)	MECA CMSC (LG118A)						
17s(7)	Keys/codes CMSC (LG118A)						
17t	Encode and verify devices (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17t(1)	Encode and verify LECG (LG118A)						
17t(2)	Encode and verify LEP						

ATTACHMENT 1
AFSC 2M052/2M072 STS
COMMON 2M0XX MISSILE AND SPACE MAINTENANCE TASKS

17t(3)	Encode and verify LCP						
17t(4)	Encode and verify CCV						
17t(5)	Perform CCV trace data functions						
17t(6)	Verify CSD(G)						
17t(7)	Encode MCU with shipping code						
17t(8)	Encode SCD (LG118A)						
17u	Data verification						
	TR: TO 31X8-2-2-1						
17u(1)	Perform selective enable verification						
17u(2)	Perform launch verification						
17v	Verify only data functions						
	TR: TO 31X8-2-2-1						
17v(1)	Verify WSC Pen C/D tapes (LG118A)						
17v(2)	Verify MCG Pen C/D tapes (LG118A)						
17v(3)	Verify fixed data cartridges						
17v(4)	Verify LFLC variable data						
17v(5)	Verify GRP complete load LFLC						
17v(6)	Verify GRP code change LFLC						
17v(7)	Verify GRP Pen D LFLC						
17v(8)	Verify LFOC variable data						
17v(9)	Verify wing code disk						
17v(10)	Verify LECG (LG118A)						
17v(11)	Verify LEP						
17v(12)	Verify MECA LFLC (LG118A)						
17v(13)	Verify keys/codes LFLC (LG118A)						
17v(14)	Verify LCSC LFLC (LG118A)						
17w	Display tape ID (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17w(1)	Display wing code disk ID						
17w(2)	Display A/B cartridge ID						
17w(3)	Display WSC/MCG pen tape ID						
17w(4)	Display DC300 cartridge ID						
17w(5)	Display MECA LFLC ID (LG118A)						
17w(6)	Display keys/codes LFLC ID (LG118A)						
17w(7)	Display LCSC LFLC ID (LG118A)						

ATTACHMENT 1
AFSC 2M052/2M072 STS
COMMON 2M0XX MISSILE AND SPACE MAINTENANCE TASKS

17x	Load and verify devices (REACT)						
	TR: TO 31X8-2-2-1						
17x(1)	Initialize LCF BS/L HDA						
17x(2)	Load/verify LCF BS/L HDA						
17x(3)	Perform LCF BS/L HDA backout CMSC						
17x(4)	Load/verify LCF diskettes						
17x(4a)	Code change diskette						
17x(4b)	EPP/MA database diskette						
17x(4c)	FDM format database diskette						
17x(4d)	TCI/EPCI diskette						
17y	Load WSC (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17z	Load and initialize MCG (WMAP/WPAP)						
	TR: TO 31X8-2-2-1						
17aa	Respond to unsuccessful sumchecks						
	TR: TO 31X8-2-2-1						
17aa(1)	Perform MM CMSC backout procedures						
17aa(2)	Perform GRP CMSC backout procedures						
17aa(3)	Perform MM CMCC backout procedures						
17aa(4)	Perform PK CMCC backout procedures						
17aa(5)	Respond to unsuccessful VNs						
	TR: SD 501-12, AFSPCI 91-1005						
17ab	Equipment malfunctions						
	TR: TO 31X8-2-2-1, 31X8-2-2-2						
17ab(1)	Perform corrective actions						
17ab(2)	Restart 7/9-track after power failure						
17ab(3)	Perform WCPS emergency shutdown						
17ab(4)	Perform KG84A emergency operations						
17ab(5)	Perform SCD code erase procedure (LG118A)						
17ac	Administrative communications management						
	TR: AFI 10-1102, 31-401, 37-126, SD 501-12, AFSPCI 91-1005						
17ac(1)	Process official incoming/outgoing communications						
17ac(2)	Process, protect, and destroy classified information						
17ac(3)	Apply classification markings						
17ac(4)	Handle/store/account for classified materials						

ATTACHMENT 1
AFSC 2M052/2M072 STS
COMMON 2M0XX MISSILE AND SPACE MAINTENANCE TASKS

17ac(5)	Document/package/process package for courier/classified shipments						
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ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	LAUNCH FACILITY, MISSILE ALERT FACILITY AND SUPPORT BASE FACILITIES						
1a	Launch facility (LGM-30)						
	TR: TO 21M-LGM30G-2-10 (-1), 21M-LGM30X-2-7-X, 21M-LGM30F-2-17-9, 21M-LGM30G-1-17, 21M-LGM30G-1-18						
1a(1)	Enter LER/SELM postured	5					
1a(2)	Enter LSB/LEB	5					
1a(3)	Enter launch tube						
1a(4)	Perform emergency shutdown	5					
1a(5)	Evacuate launch facility for EWO launch conditions	5					
1a(6)	Follow emergency procedures for electrical isolation of LSB/LEB	5					
1a(7)	Lower equipment	5					
1a(8)	Raise equipment	5					
1a(9)	Exit LER/SELM postured	5					
1a(10)	Exit LSB/LEB	5					
1a(11)	Exit launch tube						
1a(12)	Perform hostile LF securing	5					
1a(13)	Perform LF exit procedures	5					
1a(14)	Perform SP102 inspection (Launch Tube water check)						
	TR: CEM 21-SM80B-2-24-2, 21-SM80-6						
1a(15)	LF Diesel Start-up WS133 AMCDB						
1a(16)	LF Diesel Start-up WS133 BMCDB						
1a(17)	LF ECS Brine Chiller Restart (WS133A system)						
1a(18)	LF ECS Brine Chiller Restart (WS133B system)						
1b	Personnel access system						
	TR: TO 21M-LGM30F-2-19, 21M-LGM30G-2-10 (-1), 35M1-9-2-2						
1b(1)	Inspect						
1b(2)	Service						
1b(3)	Hand driven linear actuator						
1b(3a)	Remove and replace						
1b(3b)	Repair						
1b(4)	Secondary door						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1b(4a)	Perform checkout						
1b(4b)	Adjust components						
1b(4c)	Repair						
1b(5)	Electromechanical linear actuator						
1b(5a)	Perform checkout						
1b(5b)	Adjust actuator						
1b(5c)	Repair						
1b(6)	Security Pit, perform electrical test						
1b(7)	Security pit vault door						
1b(7a)	Repair						
1b(7b)	Troubleshoot						
1b(8)	Telescoping ladder						
1b(8a)	Inspect						
1b(8b)	Repair						
1c	Blast doors						
	TR: TO 21-LG118A-2-28, 21M-LGM30F-112, 21M-LGM30G-2-28-X, 35M-1-101, 35M3-11-2-1, 35M3-11-3-1						
1c(1)	MAF blast doors						
1c(1a)	Inspect components						
1c(1b)	Service components						
1c(1c)	Repair components						
1c(1d)	Perform trouble analysis						
1c(1e)	Perform emergency opening						
1c(1f)	Perform operational checkout						
1c(2)	LF blast doors						
1c(2a)	Inspect components						
1c(2b)	Service components						
1c(2c)	Repair components						
1c(2d)	Perform trouble analysis						
1c(2e)	Perform operational checkout						
1d	Ventilation safety system						
	TR: TO 21-LG118A-2-28, 21M-LGM30X-2-28-X; CEM 21-SM80X-2-26-X						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1d(1)	Missile Alert Facility (MAF)						
1d(1a)	Inspect components						
1d(1b)	Service components						
1d(1c)	Repair components						
1d(1d)	Troubleshoot components						
1d(1e)	Perform operational checkout						
1d(2)	Launch Facility (LF)						
1d(2a)	Inspect components						
1d(2b)	Service components						
1d(2c)	Repair components						
1d(2d)	Troubleshoot components						
1d(2e)	Perform operational checkout						
1e	Shock systems						
	TR: TO 21-LG118A-2-28, 21M-LGM30X-2-28-X, 35M-1-101, 21M-LGM30G-2-30						
1e(1)	Spring type mechanical shock absorber system						
1e(1a)	Inspect components						
1e(1b)	Adjust						
1e(1c)	Repair						
1e(2)	Shock attenuator system						
1e(2a)	Inspect components						
1e(2b)	Adjust						
1e(2c)	Repair						
1e(3)	Pneumatic shock isolator system						
1e(3a)	Inspect components						
1e(3b)	Adjust						
1e(3c)	Perform trouble analysis						
1e(3d)	Repair						
1e(4)	Adjust electrical mechanical base						
1e(5)	Electrical-mechanical base shoring						
1e(5a)	Install/Remove LCC shoring						
1e(5a1)	Install/Remove A-Frame						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1e(5a2)	Install/Remove Pedestal						
1e(5b)	Install/Remove LER shoring						
1e(6)	LCC pneumatic shock absorber air compressor system						
	TR: TO 34Y1-257-1						
1e(6a)	Inspect						
1e(6b)	Service						
1e(6c)	Perform trouble analysis						
1e(6d)	Repair						
1e(6e)	Perform operational checkout						
1e(6f)	Remove/Replace						
1e(6g)	Adjust						
1e(7)	Liquid shock isolator system+B142						
1e(7a)	Inspect						
1e(7b)	Adjust						
1e(7c)	Service						
1e(7d)	Perform trouble analysis						
1e(7e)	Repair						
1e(7f)	Remove						
1e(7g)	Replace						
1f	Launcher closure						
	TR: TO 21M-LGM30F-112, 21M-LGM30G-2-10 (-1), 21M-LGM30X-2-28-X, 35M1-1-101, 21M-LGM30F-2-19, 21M-LGM30X-2-18; CEM 21-SM80X-2-24-X, 21-SM80X-2-26-X; 35M-37-4-12, 11A15-1-167-1						
1f(1)	Inspect components						
1f(2)	Service components						
1f(3)	Remove components						
1f(4)	Replace components						
1f(5)	Repair components						
1f(6)	Remove ballistic gas generator cartridge	5					
1f(7)	Install ballistic gas generator cartridge	5					
1f(8)	Check out ballistic gas generator cartridge	5					

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1f(9)	Open launcher closure	5					
1f(10)	Close launcher closure	5					
1f(11)	Inspect debris system						
1f(12)	Remove debris system						
1f(13)	Replace debris system						
1f(14)	Inspect actuating and locking mechanism						
1f(15)	Remove components of the actuating and locking mechanism						
1f(16)	Install components of the actuating and locking mechanism						
1f(17)	Remove multiplying linkage						
1f(18)	Repair multiplying linkage						
1f(19)	Install multiplying linkage						
1f(20)	Raise launcher closure						
1f(21)	Lower launcher closure						
1f(22)	Perform destructive break-in						
1g	Missile suspension system (LGM-30)						
	TR: TO 21M-LGM30G-2-28-X, 21M-LGM30G-2-30, 21M-LGM30G-2-22; CEM 21-SM80F-2-26-2, 11A15-1-167-1, 21M-LGM30G-2-21, 21M-LGM30G-2-18						
1g(1)	Inspect components						
1g(2)	Service components						
1g(3)	Remove components						
1g(4)	Replace components						
1g(5)	Perform trouble analysis						
1g(6)	Adjust components						
1g(7)	Remove explosive bolts						
1g(8)	Install explosive bolts						
1g(9)	Disconnect ordnance cable						
1g(10)	Connect ordnance cable						
1g(11)	Repair latch assembly						
1h	Umbilicals (LGM-30)						
	TR: TO 21M-LGM30G-2-22, 11A15-1-167-1						
1h(1)	Remove components						
1h(2)	Replace components						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1h(3)	Remove upper umbilical						
1h(4)	Install upper umbilical						
1h(5)	Remove lower umbilical						
1h(6)	Install lower umbilical						
1h(7)	Perform trouble analysis						
1h(8)	Connect upper umbilical at the missile	5					
1h(9)	Disconnect upper umbilical at the missile						
1h(10)	Connect upper umbilical at the D-box	5					
1h(11)	Disconnect upper umbilical at the D-box						
1h(12)	Remove umbilical retraction actuator/cartridge/components						
1h(13)	Install umbilical retraction actuator/cartridge/components						
1h(14)	Perform retraction actuator cartridge checkout						
1h(15)	Remove umbilical plug jumper cable assembly						
1h(16)	Install umbilical plug jumper cable assembly						
1h(17)	Connect skirt umbilical at the missile						
1h(18)	Disconnect skirt umbilical at the missile						
1h(19)	Connect skirt umbilical at the D-box						
1h(20)	Disconnect skirt umbilical at the D-box						
2	LGM30G WEAPON SYSTEM						
2a	Analyze system operation and anomalies for						
	TR: TO 21M-LGM30G-2-1-X, 21M-LGM30G-2-22, 11A15-1-167-1						
2a(1)	Missile downstage	7					
	TR: TO 21M-LGM30B-2-13-2, 21M-LGM30G-2-11, 21M-LGM30G-2-33						
2a(2)	Missile guidance set	7					
	TR: TO 21M-LGM30G-2-33, 21M-LGM30A-2-13-1, 21M-LGM30B-2-13-2						
2a(3)	Umbilicals	7					
	TR: TO 21M-LGM30G-2-33, 21M-LGM30G-2-10 (-1), 21M-LGM30B-2-13-2, 21M-LGM30G-2-11						
2a(4)	Missile suspension system	7					
	TR: TO 21M-LGM30G-2-28 (-1), LGM-LGM30G-2-30, 21M-LGM30G-2-31, 21M-LGM30G-2-10 (-1), 21M-LGM30B-2-13-2						
3	LGM-30 MISSILE AEROSPACE VEHICLE EQUIPMENT (AVE)						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
3a	Reentry system						
	TR: 21M-LGM30G-2-33; AFSPCI 31-1101						
3a(1)	Inspect insulation	5					
3a(2)	Remove	5					
3a(3)	Install	5					
3a(4)	Checkout warhead monitor loop	5					
3a(5)	Checkout (MK12/MK12A) electrical system	5					
3a(6)	Load	5					
3a(7)	Unload	5					
3a(8)	Handle	5					
3a(9)	Transport	5					
	TR: AFSPCI 31-1101						
3a(10)	Perform missile startup after RS maintenance						
3a(11)	Install/remove RS simulator						
3a(12)	Prepare RS for Strategic Arms Reduction Treaty (START) inspection						
3a(13)	Perform alternate RS loading/unloading procedures						
3b	Missile Guidance Set (MGS) NS20/NS50						
	TR: TO 11A15-1-167-1, 21M-LGM30G-2-33, SD501-12 AFSPCI 91-1005						
3b(1)	Inspect insulation	5					
3b(2)	Repair insulation	5					
3b(3)	Remove	5					
3b(4)	Install	5					
3b(5)	Checkout MGS to RS interface cables	5					
3b(6)	Remove components	5					
3b(7)	Install components	5					
3b(8)	Load	5					
3b(9)	Unload	5					
3b(10)	Handle	5					
3b(11)	Transport						
3b(12)	Checkout accidental missile ignition (AM) system	5					
3b(13)	Receive from SRA						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
3b(14)	Prepare for transport to SRA						
3b(15)	Repair						
3b(16)	Certification						
3b(17)	Squib actuated battery						
3b(17a)	EMI cover installation/removal						
3b(17b)	Battery assembly checkout						
3b(18)	Missile Guidance Set Test Set (MGSTS)						
	TR: TO 33D9-3-284-1						
3b(18a)	Checkout						
3b(18b)	Operation						
3c	Propulsion System Rocket Engine (PSRE)						
	TR: TO 21M-LGM30G-2-33, 11A15-1-167-1; AFM 161-30						
3c(1)	Inspect insulation	5					
3c(2)	Repair insulation	5					
3c(3)	Remove						
3c(4)	Install						
3c(5)	Load						
3c(6)	Unload						
3c(7)	Handle	5					
3c(8)	Transport						
3c(9)	Follow emergency handling procedures	5					
3c(10)	Follow emergency transporting procedures	5					
3d	Postboost Control System (PBCS)						
	TR: TO 21M-LGM30G-2-33, 11A15-1-167-1; AFM 161-30						
3d(1)	Remove	5					
3d(2)	Install	5					
3d(3)	Load	5					
3d(4)	Unload	5					
3d(5)	Handle	5					
3d(6)	Transport						
3e	Simulated Electronic Launch Minuteman (SELM)						
	TR: 21M-LGM30G- 1-17, 21M-LGM30G-1-18						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
3e(1)	Posture site for SELM						
3e(1a)	Posture MGS for Battery Bypass/ Ground Power Option						
3e(1b)	Install SCM for Live/ Simulated option						
3e(2)	Reposture site from SELM						
3e(2a)	Reconfigure MGS						
3e(2b)	Umbilical/ Retraction Actuator Restoration/ Replacement						
3e(2c)	Missile Suspension System Restoration						
3e(2d)	Launcher Closure Restoration						
3e(2e)	Remove SCM						
3f	Hardness Surveillance Electromagnetic Pulse Program (HSEP)						
	TR; A008ALFDR-2, A008ALFDR-3						
3f(1)	Configure site for HSEP						
3f(2)	Deposture site from HSEP						
4	LGM-30 MISSILE						
	TR: TO 1C-141B-9, 21M-LGM30F-2-2-1, 35D3-11-52-2, 21M-LGM30F-2-17-9, 21M-LGM30G-2-2-22						
4a	Missile roll transfer operations						
4a(1)	Perform pre-roll transfer procedures for the						
4a(1a)	SSCBM to TE transfer						
4a(1b)	TE to SSCBM transfer						
4a(1c)	TE to MT transfer						
4a(1d)	MT to TE transfer						
4a(1e)	MT to SSCBM transfer						
4a(1f)	SSCBM to MT transfer						
4a(2)	Perform roll procedures to transfer missile from the						
4a(2a)	SSCBM to TE						
4a(2b)	TE to SSCBM						
4a(2c)	TE to MT						
4a(2d)	MT to TE						
4a(2e)	MT to SSCBM						
4a(2f)	SSCBM to MT						
4a(3)	Follow post-roll procedures for the						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4a(3a)	SSCBM to TE transfer						
4a(3b)	TE to SSCBM transfer						
4a(3c)	TE to MT transfer						
4a(3d)	MT to TE transfer						
4a(3e)	MT to SSCBM transfer						
4a(3f)	SSCBM to MT transfer						
4a(4)	Perform alternate leveling procedures for BMT loaded with SSCBM						
4b	Missile on/off loading operations						
4b(1)	Unload MT from railcar						
4b(2)	Load MT on railcar						
4b(3)	Unload TE from railcar						
4b(4)	Load TE on railcar						
4b(5)	Unload TE tractor from railcar						
4b(6)	Load TE tractor on railcar						
4b(7)	Unload BMT and SSCBM from rail car						
4b(8)	Load BMT and SSCBM on rail car						
4b(9)	Jack aircraft						
4b(9a)	Stabilize						
4b(9b)	Destabilize						
4b(10)	Follow pre-unloading procedures to remove SSCBM from aircraft						
4b(11)	Follow pre-loading procedures to load SSCBM on aircraft						
4b(12)	Unload SSCBM from aircraft						
4b(13)	Load SSCBM on aircraft						
4b(14)	Unload portable air conditioner from BMT/railcar/flatbed trailer						
4b(15)	Load portable air conditioner from BMT/railcar/flatbed trailer						
4b(16)	Perform preoperational inspection of flatbed trailer						
4c	Missile transit procedures						
4c(1)	Follow procedures for storage/handling of the loaded						
4c(1a)	Transporter erector						
4c(1b)	Shipping and storage container ballistic missile						
4c(1c)	Missile transporter						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4c(2)	Transportation environmental monitoring system						
4c(2a)	Remove						
4c(2b)	Install						
4c(2c)	Monitor						
4c(2d)	Record missile status						
4d	Follow procedures for empty rocket motor carriage handling						
4e	Missile emplacement						
4e(1)	Position TE at LF						
4e(2)	Position TE on pylons						
4e(3)	Prepare TE for tiedown						
4e(4)	Attach missile positioner						
4e(5)	Prepare TE forward area						
4e(6)	Position missile in TE container						
4e(7)	Secure missile in TE container						
4e(8)	Prepare hoist						
4e(9)	Prepare rocket motor carriages						
4e(10)	Erect TE container						
4e(11)	Emplace missile						
	TR: TO 21M-LGM30F-2-17-3						
4e(12)	Raise hoist sling rods						
4e(13)	Retract TE container						
4e(14)	Prepare inside of TE container for highway travel						
4e(15)	Mate TE tractor to semitrailer						
4e(16)	Remove TE from pylons						
4e(17)	Follow procedures for emergency missile emplacement						
4e(18)	Inspect insulation on missile downstage						
4e(19)	Repair insulation on missile downstage						
4e(20)	Level missile						
4e(21)	Rotate missile						
	TR: TO 21M-LGM30F-2-17-3						
4e(22)	Install missile safing pins	5					
	TR: TO 21M-LGM30G-2-33						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4e(23)	Remove missile safing pins	5					
	TR: TO 21M-LGM30G-2-33						
4e(24)	Perform sodium chromate/wet missile inspection						
	TR: TO 21M-LGM30G-2-10 (-1)						
4f	Missile removal						
4f(1)	Position TE at LF						
4f(2)	Position TE on pylons						
4f(3)	Prepare TE for tiedown						
4f(4)	Prepare hoist						
4f(5)	Position rocket motor carriages						
4f(6)	Tie down rocket motor carriage						
4f(7)	Prepare hoist sling rods						
4f(8)	Erect TE container						
4f(9)	Lower hoist sling rods						
4f(10)	Rotate the missile						
	TR: TO 21M-LGM30F-2-17-3						
4f(11)	Remove the missile						
	TR: TO 21M-LGM30F-2-17-3						
4f(12)	Retract TE container						
4f(13)	Provide environmental control to TE container						
4f(14)	Mate TE tractor to semitrailer						
4f(15)	Attach missile positioner						
4f(16)	Prepare forward area for missile positioning						
4f(17)	Position missile in TE container						
4f(18)	Secure missile in TE container						
4f(19)	Perform final preparation of missile for travel						
4f(20)	Remove TE from pylons						
4f(21)	Follow procedures for emergency missile removal						
4g	Launcher environmental shelter						
4g(1)	Install the TE to launcher environmental shelter						
4g(2)	Remove the TE from launcher environmental shelter						
4h	Perform the TE/TE support truck/flatbed trailer enroute inspection						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
5	PAYLOAD TRANSPORTER						
	TR: AFSPCI 31-1101; TO 21M-LGM30G-2-33, 36A9-8-49-1, 36A9-8-58-1, 1-1A-8, 33D9-68-30-1, 35D4-2-80-1, 33G1-55-2						
5a	Analyze operation	7					
5b	Analyze anomalies	7					
5c	Perform truck-tractor preoperational checkout						
5d	Semitrailer						
5d(1)	Inspect						
5d(2)	Service						
5d(3)	Perform preoperational checkout	5					
5d(4)	Repair						
5e	Auxiliary power unit						
5e(1)	Inspect						
5e(2)	Service						
5e(3)	Operate	5					
5f	Hoist						
5f(1)	Inspect						
5f(2)	Service						
5f(3)	Operate	5					
5f(4)	Repair						
5g	Operate environmental control system						
5h	Pneumatic systems						
5h(1)	Inspect						
5h(2)	Service						
5h(3)	Operate						
5h(4)	Repair						
5h(5)	Troubleshoot						
5i	Operate security system						
5j	Prepare PT van to						
5j(1)	Load AVE	5					
5j(2)	Unload AVE	5					
5j(3)	Temporarily store AVE components						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
5j(4)	Transport after temporary storage of AVE components						
5k	Position/stabilize PT van	5					
5l	Destabilize PT van	5					
5m	Disconnect tractor from semitrailer						
5n	Connect tractor to semitrailer						
6	TRANSPORTER-ERECTOR						
	TR: TO 21M-LGM30F-2-2-1, 35A2-5-36-1, 35D3-11-52-2, 35D3-11-52-4, 35D3-11-52-11, 35E9-266-1, 35C2-3-493-1						
6a	Tractor hydraulic system						
6a(1)	Perform trouble analysis						
6a(2)	Monitor systems						
6a(3)	Inspect						
6a(4)	Service						
6a(5)	Repair						
6b	Auxiliary power unit						
6b(1)	Inspect						
6b(2)	Service						
6b(3)	Operate						
6c	Semitrailer/hydraulic system						
6c(1)	Inspect						
6c(2)	Service						
6c(3)	Repair						
6c(4)	Troubleshoot						
6c(5)	Operate						
6d	Perform TE preoperational inspection and checkout						
6e	Missile emplacement system						
6e(1)	Analyze operation	7					
6e(2)	Analyze anomalies	7					
6e(3)	Inspect						
6e(4)	Service						
6e(5)	Perform operational checkout						
6e(6)	Repair						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
6e(7)	Perform trouble analysis						
6e(8)	Functionally check out						
6e(9)	Adjust components						
6f	Handheld control unit						
6f(1)	Operate						
6f(2)	Troubleshoot						
6g	Environmental control unit						
6g(1)	Operate						
6g(2)	Troubleshoot						
7	MISSILE TRANSPORTER						
	TR: TO 21M-LGM30F-2-2-1, 35M4-3-7-1, 35M4-3-7-435M4-3-8-1, 36A9-2-14-2						
7a	Missile semitrailer						
7a(1)	Inspect						
7a(2)	Service						
7a(3)	Repair						
7a(4)	Perform trouble analysis						
7b	Engine generator set						
7b(1)	Inspect						
7b(2)	Service						
7b(3)	Perform operational checkout						
7c	Hydraulic system						
7c(1)	Inspect						
7c(2)	Service						
7c(3)	Repair						
7c(4)	Perform trouble analysis						
7c(5)	Perform operational checkout						
8	BALLISTIC MISSILE TRAILER						
	TR: TO 21M-LGM30F-2-2-1, 36A9-11-6-1						
8a	Hydraulic system						
8a(1)	Inspect						
8a(2)	Service						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
8a(3)	Repair components						
8a(4)	Perform trouble analysis						
8a(5)	Perform operational checkout						
8b	Trailer						
8b(1)	Inspect						
8b(2)	Service						
8b(3)	Repair						
8b(4)	Perform operational checkout						
9	SHIPPING AND STORAGE CONTAINER BALLISTIC MISSILE						
	TR: TO 21M-LGM30F-2-2-1, 35E20-2-8-2						
9a	Visually inspect						
9b	Repair						
10	MAINTENANCE AND SUPPORT TRUCKS						
	TR: TO 21M-LGM30G-2-10 (-1), 35D4-7-4-2, 36A12-24-3-1						
10a	Mechanical maintenance truck						
10a(1)	Inspect						
10a(2)	Service						
10a(3)	Repair						
10a(4)	Perform operational checkout						
10a(5)	Operate hoist						
10b	Transporter erector support truck						
10b(1)	Inspect						
10b(2)	Service						
10b(3)	Perform operational checkout						
10b(4)	Repair						
10c	PMT Van						
	TR: 36A9-8-56-1, 36V16-25-1, 33D9-68-30-1						
10c(1)	Inspect						
10c(2)	Service						
10c(3)	Repair						
10c(4)	Perform trouble analysis						
10d	Hoists						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
10d(1)	Inspect						
10d(2)	Service						
10d(3)	Repair						
10d(4)	Perform trouble analysis						
11	TEST EQUIPMENT						
11a	Operate						
11a(1)	Explosive set circuitry test set	3					
	TR: TO 33D9-38-15-1, 33D9-38-15-21, 33A1-12-1147-1, 33A1-12-1198-1, 33A1-12-1199-1, 33A1-12-1300-1						
11a(2)	Control monitor						
	TR: TO 21M-LGM30G-2-33						
11a(3)	Colormetric gas tester	3					
	TR: TO 21M-LGM30G-2-33, 21M-LGM30G-2-10 (-1)						
11b	Perform operator maintenance						
11c	Cable retractor test kit						
	TR: TO 21M-LGM30G-2-28-X, 33K-1-X, 35M1-1-101						
11c(1)	Operate						
11c(2)	Remove components						
11c(3)	Replace components						
11c(4)	Adjust components						
11c(5)	Perform trouble analysis						
11c(6)	Perform test after reassembly						
11d	Leak test fixture (PN 7127723)						
	TR: TO 1-1A-8, 21M-LGM30G-2-22, 33K-1-X, 35M1-1-101						
11d(1)	Operate	5					
11d(2)	Remove components						
11d(3)	Replace components						
11d(4)	Perform trouble analysis						
11d(5)	Perform self test						
12	HAND LIFT TRUCKS						
	TR: TO 35M1-1-101, 36A12-24-3-1, 35M3-8-11-1						
12a	Inspect						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
12b	Service						
12c	Repair						
12d	Operate						
12e	Perform functional test						
12f	LF hydraulically operated battery handling set						
12f(1)	Inspect						
12f(2)	Service						
12f(3)	Operate						
12f(4)	Repair						
12f(5)	Perform functional test						
13	<i>GUIDANCE AND CONTROL PURGING MANIFOLD</i>						
	TR: TO 33K-1-X, 35M1-1-101, 36A9-8-40-1, 36A9-8-49-1, 42B5-1-2, 36A9-8-58-1, 21M-LGM30G-2-22						
13a	Inspect						
13b	Adjust						
13c	Repair						
13d	Operate						
13e	Replace nitrogen bottles						
13f	Troubleshoot						
13g	Perform component calibration procedures						
13h	Operate portable purge manifold						
	TR: TO 21m-LGM#)G-2-22						
14	<i>HYDRAULIC PRESSURE CHARGING SET</i>						
	TR: TO 21-LG118A-2-28, 21M-LGM30X-2-28-X, 33K-1-X, 35M5-3-16-2						
14a	Inspect						
14b	Service						
14c	Troubleshoot components						
14d	Repair components						
14e	Perform functional test						
14f	Operate						
15	<i>PORTABLE AIR CONDITIONER</i>						
	TR: TO 21M-LGM30F-2-2-1, 35C2-3-370-1, 35C2-3-370-14, 35C2-3-493-1, 35E9-25-3, 35E9-37-2, 35E9-270-1						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
15a	Inspect						
15b	Service						
15c	Perform preoperational inspection						
15d	Perform preoperational checkout						
15e	Repair						
15f	Perform trouble analysis						
15g	Operate						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

16	HYDRAULIC PUSHER SET						
	TR: TO 21M-LGM30B-2-18, 21M-LGM30G-2-10 (-1), 35M27-3-11-1						
16a	Inspect						
16b	Service						
16c	Perform checkout						
16d	Perform trouble analysis						
16e	Repair						
16f	Operate	3					
17	COMPRESSED GAS CYLINDER/VALVE ASSEMBLY (P/N 25-25079-1/21)						
	TR: TO 35M1-1-101, 21M-LGM30G-2-10 (-1); AFOSH STD 127-46						
17a	Perform trouble analysis						
17b	Repair components						
17c	Perform test after reassembly						
17d	Operate	3					
18	PROOFLOAD FIXTURE						
	TR: TO 33D9-68-30-1, 35DA4-3-1, 36-1-58						
18a	Proofload hoisting units						
18b	Proofload adapters						
18c	Proofload slings						
19	AUXILIARY HOIST CONTROL						
	TR: TO 35DA4-3-1						
19a	Inspect						
19b	Service						
19c	Operate						
20	HOISTING UNITS, ADAPTERS, AND SLINGS						
	TR: TOs 1-1A-8, 11N-HRV-5022-2, 21M-LGM30F-4-X, 21M-LGM30G-2-33, 35M27-3-8-1, 36-1-58; AFOSH STD 91-46						
20a	Inspect						
20b	Repair						
20c	Proofload						
21	OPERATOR'S SEAT, MCC/DMCC						
	TR: TO 21M-LGM30G-2-28-X, 35M1-1-101						
21a	Inspect						
21b	Repair						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

21c	Perform functional checkout						
22	HYDRAULIC PURGE UNIT						
	TR: TO 35D3-11-52-2						
22a	Operate						
22b	Repair						
22c	Troubleshoot						
23	ADJUSTABLE AIRCRAFT MAINTENANCE PLATFORM						
	TR: TO 35A4-2-3-51, 35A4-2-5-1, 35A4-2-6-1						
23a	Inspect						
23b	Service						
23c	Operate						
23d	Repair						
24	20- AND 70-TON HYDRAULIC AIRCRAFT JACK						
	TR: TOs 1C-141B-9, 35A2-2-6-1, 35A2-2-47-1, 35A2-2-47-11						
24a	Inspect						
24b	Service						
24c	Operate						
24d	Repair						
24e	Perform operational checkout						
24f	Perform trouble analysis						
25	ELEVATOR WORK CAGE/GUIDED MISSILE MAINTENANCE PLATFORM						
	TR: TO 21M-LGM30G-2-10 (-1), 35A4-2-31-1, 35A4-4-9-1, 33D9-68-30-1						
25a	Inspect						
25b	Repair						
25c	Service						
25d	Certify secondary brake on GMMP						
25e	Operate to facilitate repair						
25f	Operate	3					
25g	Remove	5					
25h	Install	5					
26	TRANSLATING/LEVELING JACK SET						
	TR: TO 21M-LGM30F-2-2-1, 35A2-5-25-1, 35M19-3-26-1, 21M-LGM30F-2-17-1						
26a	Inspect						
26b	Service						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

26c	Operate						
26d	Repair						
26e	Perform trouble analysis						
27	PROOFLOAD TEST FACILITY (PLTF)						
	TR: TO 33D9-68-30-1; CEM 21-SM80X-2-26-X, 35R-1-481-X, 35R-1-581-X, 35R-1-681-X						
27a	Inspect						
27b	Service						
27c	Repair						
27d	Hydraulic system						
27d(1)	Inspect						
27d(2)	Service						
27d(3)	Adjust						
27d(4)	Perform operational checkout						
27d(5)	Troubleshoot						
27d(6)	Repair						
27e	Operate systems						
27f	PLTF operations						
	TR: TO 33D9-68-30-1, 35D3-11-52-2, 35M3-8-11-1						
27f(1)	Proofload test						
27f(1a)	PT						
27f(1b)	PMT Van						
27f(1c)	Crane						
27f(2)	Transporter erector						
27f(2a)	Check out rigging						
27f(2b)	Check out cable tension						
27f(2c)	Proofload test hoist/sling rod						
27f(3)	Proofload test the mechanical maintenance support truck monorail hoist						
27f(4)	Position and tie-down the TE at the PLTF						
27f(5)	Remove the TE from the PLTF						
27g	Proofload						
27g(1)	Elevator workcage assembly (P/N 407-52-874/875)/Guided missile maintenance platform (P/N 33307-40000-10)						
27g(2)	Elevator workcage/Guided missile maintenance platform						
27g(3)	Spider Workcage (Peacekeeper only)						

ATTACHMENT 2
AFSC 2M0X2 STS
ICBM SYSTEMS MAINTENANCE TASKS

28	<i>SPIDER WORKCAGE (PEACEKEEPER ONLY)</i>						
	TR: TO 35M3-8-11-1						
28a	Inspect						
28b	Service						
28c	Repair						
28d	Perform trouble analysis						
29	<i>DYNOMONOMETER</i>						
	TR: Operational Manual						
29a	Inspect						
29b	Operate						
30	<i>WING CODE PROCESSING SYSTEM (WCPS) PNEUMATIC DOOR</i>						
	TR: 31X8-2-2-2						
30a	Repair						
30b	Perform troubleshooting						
30c	Perform operational checkout						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFY
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	LAUNCH FACILITY AND MISSILE ALERT FACILITY (LG118A)						
1a	Launch facility (LG-118A):						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-17, 21-LG118A-2-28, 33D9-61-108						
1a(1)	Enter LER/SELP postured	5					
1a(2)	Enter LSB/LEB	5					
1a(3)	Enter launch tube						
1a(4)	Perform emergency shutdown	5					
1a(5)	Evacuate launch facility for EWO launch conditions	5					
1a(6)	Follow emergency procedures for electrical isolation of LSB/LEB	5					
1a(7)	Lower equipment	5					
1a(8)	Raise equipment	5					
1a(9)	Install MGCS/URM access barrier set	5					
1a(10)	Remove MGCS/URM access barrier set	5					
1a(11)	Exit launch tube						
1a(12)	Exit LER/SELP postured	5					
1a(13)	Exit LSB/LEB	5					
1a(14)	Perform hostile LF securing procedures	5					
1a(15)	Perform primary door alternate opening						
1a(16)	Perform LF exit procedures	5					
1a(17)	Perform LF diesel startup procedures						
1a(18)	Perform LF brine chiller restart procedures						
1b	Personnel access system						
	TR: TO 21M-LGM30F-2-19, 21-LG118A-2-10, 35M1-9-2-2, 21-LG118A-2-17						
1b(1)	Inspect						
1b(2)	Service						
1b(3)	Remove and replace hand driven linear actuator						
1b(4)	Security Pit perform electrical test						
1c	Launcher closure						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-28, 35M1-1-101, 21-LG118A-2-18-2; CEMs 21-SM80X-2-24-X, 21-SM80X-2-26-X, 35M-37-4-12, 11A15-1-167-1						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1c(1)	Inspect components						
1c(2)	Service components						
1c(3)	Remove components						
1c(4)	Replace components						
1c(5)	Repair components						
1c(6)	Remove ballistic gas generator cartridge	5					
1c(7)	Install ballistic gas generator cartridge	5					
1c(8)	Check out ballistic gas generator cartridge	5					
1c(9)	Open launcher closure	5					
1c(10)	Close launcher closure	5					
1c(11)	Inspect the actuating and locking mechanism						
1c(12)	Remove components of the actuating and locking mechanism						
1c(13)	Install components of the actuating and locking mechanism						
1c(14)	Remove multiplying linkage						
1c(15)	Repair multiplying linkage						
1c(16)	Install multiplying linkage						
1c(17)	Raise launcher closure						
1c(18)	Lower launcher closure						
1c(19)	Perform destructive break-in						
1d	Missile suspension system (LGM-118)						
	TR: TO 21-LG118A-2-28						
1d(1)	Troubleshoot						
1d(2)	Remove launch bleed down initiator						
1d(3)	Install launch bleed down initiator						
1d(4)	Disconnect ordnance cable	5					
1d(5)	Connect ordnance cable	5					
1d(6)	Analyze system operation and anomalies	7					
1d(7)	Checkout Initiators						
1e	Secure code device (LGM-118)						
	TR: TO 21-LG118A-2-11						
1e(1)	Install						
1e(2)	Remove						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFY
							OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1f	MUG/URM						
	TR: TOs 21-LG118A-2-28, 21-LG118A-2-32, 21-LG118A-2-241						
1f(1)	Connect	5					
1f(2)	Disconnect	5					
1f(3)	Perform freon leak check						
1f(4)	Remove MUG						
1f(5)	Replace MUG						
1f(6)	Analyze system operation and anomalies for umbilicals	7					
1g	Simulated Electronic Launch Peacekeeper (SELP)						
	TR: 33D9-61-108-1						
1g(1)	Prepare LF for SELP						
1g(1a)	Perform diagnostics on DAS						
1g(1b)	Configure LF for SELP test						
1g(1c)	Perform SELP configuration check						
1g(1d)	Perform DAS troubleshooting						
1g(2)	Restore site after SELP test						
1g(2a)	Perform SELP data retrieval						
1g(2b)	Restore LF to operational configuration						
1g(2c)	Perform SELP emergency procedures						
2	LGM-118 MISSILE						
2a	Stage IV						
	TR: TOs 21-LG118A-1, 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-2-34, 21-LG118A-2-41, 21-LG118A-2-52						
2a(1)	Inspect						
2a(2)	Repair						
2a(3)	Remove MGCS access door						
2a(4)	Install MGCS access door						
2a(5)	Repair Stage IV access door nut plates/fasteners						
2a(6)	Remove						
2a(7)	Install	5					
2a(8)	Perform ECTS test	5					
2a(9)	Perform ECTS stand alone						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
2a(10)	Perform roll transfer						
2a(11)	Perform and follow emergency procedures	5					
2a(12)	Transport/Convoy procedures						
2a(13)	Process for LF						
2a(14)	Process for shipment						
2a(15)	Process for storage						
2a(16)	Remove replace stage IV batteries						
2b	Stage III						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-2-41, 21-LG118A-2-52						
2b(1)	Inspect						
2b(2)	Repair						
2b(3)	Remove						
2b(4)	Install	5					
2b(5)	Perform ECTS test						
2b(6)	Perform ECTS stand alone						
2b(7)	Perform roll transfer						
2b(8)	Perform and follow emergency procedures	5					
2b(9)	Transport/Convoy procedures						
2b(10)	Process for LF						
2b(11)	Process for shipment						
2b(12)	Process for storage						
2c	Stage II						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-2-41, 21-LG118A-2-52						
2c(1)	Inspect						
2c(2)	Repair						
2c(3)	Remove						
2c(4)	Install	5					
2c(5)	Perform ECTS test						
2c(6)	Perform ECTS stand alone						
2c(7)	Perform roll transfer						
2c(8)	Perform and follow emergency procedures	5					

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
2c(9)	Transport/Convoy procedures						
2c(10)	Process for LF						
2c(11)	Process for shipment						
2c(12)	Process for storage						
2d	Stage I						
	TR: TOs 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-2-41, 21-LG118A-2-52						
2d(1)	Inspect						
2d(2)	Repair						
2d(3)	Remove						
2d(4)	Install	5					
2d(5)	Perform ECTS test	5					
2d(6)	Perform roll transfer						
2d(7)	Perform and follow emergency procedures	5					
2d(8)	Transport/Convoy procedures						
2d(9)	Process for LF						
2d(10)	Process for shipment						
2d(11)	Process for storage						
2e	Analyze system operation and anomalies for missile stages	7					
3	LGM-118 MISSILE AEROSPACE VEHICLE EQUIPMENT (AVE)						
3a	Reentry system						
	TR: TOs 21-LG118A-2-32, 21-LG118A-2-33						
3a(1)	Mate mechanically	5					
3a(2)	Mate electrically	5					
3a(3)	Demate						
3a(4)	Perform roll transfer at ASI						
3a(5)	Transport/Convoy procedures						
	TR: AFSPCI31-10101						
3a(6)	Perform roll transfer at emplacer						
3a(7)	Perform and follow emergency procedures						
3b	Missile Guidance and Control Set (MGCS)						
	TR: TOs 21-LG118A-1, 21-LG118A-2-34, 21-LG118A-12-1, 21-LG118A-2-52						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
3b(1)	Remove						
3b(2)	Install	5					
3b(3)	Remove components						
3b(4)	Install components						
3b(5)	Load						
3b(6)	Unload						
3b(7)	Handle						
3b(8)	Transport						
3b(9)	Perform freon leak check						
3b(10)	Inspect						
3b(11)	Store						
3b(12)	Perform certification test						
3b(13)	Connect/Disconnect RSSC Coupler						
3c	Analyze system operation and anomalies	7					
4	MISSILE GUIDANCE AND CONTROL SET SUPPORT TRUCK						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34, 36A13-31-1						
4a	Perform preoperational inspection						
4b	Hoists						
4b(1)	Inspect						
4b(2)	Operate						
4c	Air compressor						
4c(1)	Inspect						
4c(2)	Operate						
4d	Operate environmental control system						
4e	Auxiliary power unit						
4e(1)	Inspect						
4e(2)	Service						
4e(3)	Operate						
4f	Operate security system						
5	AIR ELEVATOR SEMITRAILER						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-241, 35M10-7-5-1, 35M10-7-6-1, 36A9-11-16-1, 36A9-11-15-11						
5a	Operate						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
5b	Position						
5c	Connect						
5d	Disconnect						
5e	Perform preoperational inspection						
5e(1)	Trailer						
5e(2)	AM general tractor						
5f	Operate air elevator control module panel						
5g	Troubleshoot						
6	TYPE II TRANSPORTER						
	TR: TO 21-LG118A-2-32, 21-LG118A-2-33, 35D3-11-46-1, 35M1-10-2--1, 36A-13-29-1, 36A-13-29-1						
6a	Perform preoperational inspection						
6a(1)	Tractor	5					
6a(2)	Trailer	5					
6b	Operate						
6c	Position/stabilize	5					
6d	Destabilize	5					
6e	Operate container APU						
6f	Operate HPS						
6g	Troubleshoot						
6h	Adjust ADS wedge block						
6i	Analyze operation	7					
6j	Analyze anomalies	7					
7	EMPLACER						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-32, 36A9-11-14-1						
7a	Position and perform tiedown/stabilization	5					
7b	Destabilize and prepare for transport						
7c	Pre-transport procedure						
7d	Work platforms						
7d(1)	Install						
7d(2)	Remove						
7d(3)	Inspect						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
7d(4)	Repair						
7e	Operate emplacer control panel						
7e(1)	Topside						
7e(2)	LER						
7f	Troubleshoot						
7g	Perform preoperational inspection						
7h	Operate						
7i	Analyze missile emplacement system operation	7					
7j	Analyze missile emplacement system anomalies	7					
8	TEST EQUIPMENT						
8a	Operate						
8a(1)	Colormetric gas tester						
	TR: TO 21-LG118A-2-10, 21-LG118A-2-33						
8a(2)	MGCS certification test set						
	TR: TO 21-LG118A-12-1						
8a(3)	Electronic freon leak detector						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34						
8a(4)	Air sampling equipment						
	TR: TO 21-LG118A-2-10, 11H5-29-1, 11H5-35-1						
8a(5)	Optical micrometer						
	TR: TO 21-LG118A-2-34						
8a(6)	Electronic checkout test set						
	TR: TO 21-LG118A-2-41						
8a(7)	Operator resistivity meter						
	TR: TO 21-LG118A-2-31, 21-LG118A-2-32						
8a(8)	Electrostatic field meter						
	TR: TO 21-LG118A-2-32						
8b	Operate Hydraulic Pusher Set						
	TR: TO 21-LG118A-2-10						
8c	Operate Compressed Gas Cylinder/ Valve Assembly (P/N 25-25079-1/21)						
	TR: TO 21-LG118A-2-10						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

9	ELEVATOR WORK CAGE AND HOIST ASSEMBLY (409-52-874/875), (PN 3960-01-165-9248AH, PN 407-528-74-1)						
	TR: TOs 21-LG118A-2-10, 35M3-8-11-1,						
9a	Inspect						
9b	Service						
9c	Install						
9c(1)	One man						
9c(2)	Two man	5					
9c(3)	Spider						
9d	Remove						
9d(1)	One man						
9d(2)	Two man						
9d(3)	Spider						
9e	Operate						
9e(1)	One man						
9e(2)	Two man						
9e(3)	Spider						
9f	Repair components						
9g	Perform trouble analysis						
10	<i>PEACEKEEPER TRANSPORTATION AND HANDLING EQUIPMENT</i>						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34, 35M3-8-14-1						
10a	Missile guidance control emplacement set						
10a(1)	Inspect						
10a(2)	Install						
10a(3)	Remove						
10a(4)	Repair components						
10a(5)	Remove components						
10a(6)	Replace components						
10a(7)	Adjust components						
10b	MGCS rotation fixture						
10b(1)	Inspect						
10b(2)	Repair components						
10b(3)	Remove components						
10b(4)	Replace components						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

10c	LER 1 work platform						
	TR: TOs 35M3-8-11-1, 21-LG118A-2-10, 21-LG118A-2-32						
10c(1)	Inspect						
10c(2)	Install						
10c(3)	Remove						
10c(4)	Repair components						
10d	LER 2 work platform						
	TR: TO 35M3-8-11-1, 21-LG118A-2-10						
10d(1)	Inspect						
10d(2)	Install						
10d(3)	Remove						
10d(4)	Repair components						
11	<i>PNEUMATIC CONTROL CART</i>						
	TR: TO 21-LG118A-2-10, 21-LG118A-2-32, 21-LG118A-2-33, 35D29-8-8-1						
11a	Inspect						
11b	Operate						
11c	Troubleshoot						
11d	Repair						
12	<i>LAUNCH EJECTION GAS GENERATOR (LEGG)</i>						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33						
12a	Install	5					
12b	Remove						
12c	Prepare for shipment						
12d	Process						
12e	Perform emergency procedures						
12f	Hot Gas Generator (HGG)						
	TR: TO 21-LG118A-2-31						
12f(1)	Inspect						
12f(2)	Install						
12f(3)	Remove						
12f(4)	Roll transfer						
13	<i>LONGITUDINAL SUPPORT ASSEMBLY (LSA)</i>						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

13a	Install						
13b	Remove						
13c	Process						
13d	Roll transfer						
14	MISSILE AIR ELEVATOR						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-32, 21-LG118A-2-241						
14a	Install						
14b	Remove						
14c	Troubleshoot						
15	OVERHEAD CRANES						
	TR: TO 21-LG118A-2-31; CEM 21-SM11BA-2-232-2						
15a	Operate						
15b	Troubleshoot						
15c	Perform emergency procedures						
16	MISSILE HANDLING EQUIPMENT						
	TR: TOs 21-LG118A-2-31, 35D6-23-1, 35M3-8-15-1, 35M35-6-1, 36A9-11-14-1, 1-1A-8						
16a	End ring						
16a(1)	Install						
16a(2)	Remove						
16a(3)	Perform preoperational checkout						
16a(4)	Inspect						
16a(5)	Repair						
16b	Lifting adapter						
16b(1)	Install						
16b(2)	Remove						
16b(3)	Inspect						
16b(4)	Repair						
16c	Saddle pallet cradle assembly						
16c(1)	Install						
16c(2)	Remove						
16c(3)	Perform preoperational checkout						
16c(4)	Inspect						
16c(5)	Repair						
16d	Carriages						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

16d(1)	Install						
16d(2)	Remove						
16d(3)	Perform preoperational checkout						
16d(4)	Roll transfer						
16d(5)	Inspect						
16d(6)	Repair						
16e	Handling slings						
16e(1)	Install						
16e(2)	Remove						
16e(3)	Inspect						
16e(4)	Repair						
17	LOAD POSITIONER						
	TR: TOs 21-LG118A-2-31, 34D4-5-3-11, 35D4-5-3-11						
17a	Operate 10 ton						
17b	Service 10 ton						
17c	Operate 25 ton						
17d	Service 25 ton						
18	RAIL TRANSFER FACILITY						
	TR: TOs 21-LG118A-2-33, 36M1-3-30-1						
18a	Perform preoperational inspection						
18b	Operate						
18c	Transfer container from railcar to storage pad						
18d	Transfer container from storage pad to type II						
18e	Transfer container from type II to railcar						
18f	Transfer container from type II to storage pad						
18g	Perform emergency procedures						
18h	Transfer container from storage to railcar						
18i	Transfer container from railcar to type II						
19	CANISTER						
	TR: TOs 21-LG118A-1, 21-LG118A-2-28, 21-LG118A-2-32, 21-LG118A-2-34, 21-LG118A-2-241						
19a	Adjust components						
19b	Remove components						
19c	Install components						
19d	Open/close canister MUG/URM access door						

ATTACHMENT 3
AFSC 2M0X2 STS
PEACEKEEPER MISSILE MAINTENANCE TASKS

19e	Open Stage IV access door						
19f	Close Stage IV access door						
19g	Inspect access door fasteners						
19h	Repair access door fasteners						
19i	Manually operate LRM/EPS						
20	<i>LRM/EPS WORK PLATFORMS</i>						
	TR: TO 21-LG118A-2-10						
20a	Install platforms						
20b	Remove platforms						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	LAUNCHER CLOSURE SYSTEM/LAUNCHER EQUIPMENT ROOM						
	TR: TOs 21M-LGM30X-2-18-X, 21M-LGM30F-2-17-9, 21M-LGM30G-2-28, 21-LG118A-2-18-2, 21M-LGM30G-2-10, 21-LG118A-2-28						
1a	Remove gas generators						
1b	Install gas generators						
1c	Install vent valve						
1d	Remove vent valve						
1e	Install launcher closure cable						
1f	Remove launcher closure cables						
1g	Install fixed sheaves						
1h	Remove fixed sheaves						
1i	Remove moving sheaves						
1j	Install moving sheaves						
1k	Remove first motion switches						
1l	Install LEPS switches and cables						
1m	Remove LEPS switches and cables						
1n	Install lockpin						
1o	Remove lockpin						
1p	Restore and reset collimator cover						
1q	Operate Compress gas cyl/valve assembly (modified 2-way)						
1r	Launcher closure water seal						
1r(1)	Clean/restore						
1r(2)	Remove						
1r(3)	Install						
1s	Ballistic actuator						
1s(1)	Install						
1s(2)	Remove						
1s(3)	Leak check						
1t	Perform launcher system checkout						
1u	Arresting lugs						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1u(1)	Inspect						
1u(2)	Remove						
1u(3)	Install						
2	MISSILE SUSPENSION SYSTEM/LAUNCH TUBE						
	TR: TOs 21M-LGM30X-2-18-X, 21M-LGM30F-2-17-3						
2a	Perform liquid isolator leak check						
2b	Articulating arm assembly						
2b(1)	Reset						
2b(2)	Functional checkout						
2b(3)	Install components						
2b(4)	Remove components						
2b(5)	Adjust components						
2b(6)	Restore components						
2c	Remove/replace art arm damper						
2d	Latch release mechanism						
2d(1)	Remove						
2d(2)	Install						
2d(3)	Restore						
2e	Elastomeric spring pads						
2e(1)	Remove						
2e(2)	Install						
2f	Upper and lower steel replica blocks						
2f(1)	Install						
2f(2)	Remove						
2f(3)	Inspect						
2g	Install heater duct (L/T)						
2g(1)	LF04, 09						
2g(2)	LF 26, 10						
2h	Inspect and replace MSS ground cables						
2i	Restore pickup antenna						
2j	Tether assembly						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
2j(1)	Install components						
2j(2)	Remove components						
2j(3)	Inspect and protect components						
2k	Inspect and replace NCU cable retractor						
2l	Remove missile adapter ring						
2m	Install and remove leveling jacks						
2n	MSS Proofloading and leveling						
2n(1)	Prepare loading fixture						
2n(2)	Perform proofloading						
2n(3)	Perform positioning and leveling						
2n(4)	Remove loading fixture						
3	CABLES						
	TR: TO 21M-LGM30X-2-18-X						
3a	Install MSS LEPS cables						
3b	Remove MSS LEPS cables						
3c	Install pressure monitor cables						
3d	Remove pressure monitor cables						
3e	Ordinance cables						
3e(1)	Replace MSS J-Box						
3e(2)	Install and remove cables from D-Box to MSS J-Box						
3e(3)	Install and remove cables from MSS J-Box to articulating arm						
4	MISCELLANEOUS OPERATIONS						
	TR: TOs 21M-LGM30X-2-18-X, 21-LG118A-2-10, 21-LG118A-2-18-2						
4a	Perform LF damage inspection						
4b	Perform L/C and LEPS checkout						
4b(1)	Operate control monitor						
4b(2)	Perform requirements at LF						
4b(3)	Power-up M&C master station						
4c	Restore elevator workcage C-rail						
4d	Perform pre-missile emplacement requirements						
4d(1)	LER						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4d(2)	Launch tube						
4d(3)	L/T seal restoration						
4e	Perform post missile emplacement requirements						
4e(1)	Final harden						
4e(2)	Miscellaneous operations						
4e(3)	L/T sealing						
4f	Operate model 360 air sampler						
5	<i>PEACEKEEPER</i>						
	TR: TO 21-LG118A-2-18-2						
5a	Perform emplacer pad refurbishment						
5b	Perform surface debris clean-up						
5c	Connect and disconnect environmental control purge lines						
6	<i>PORTABLE DIESEL ELECTRIC POWER UNIT</i>						
	TR: CEM 21-SM80-102						
6a	Install						
6b	Remove						
6c	Service						
6d	Operate						
7	<i>EQUIPMENT CRANE</i>						
	TR: TOs 34M-3-24-1, 36M-3-24-11, 45C3-5-24-1, 35L3-5-15-21, 36C3-5-11-1; AFOSH 127-46						
7a	Inspect cables						
7b	Remove cables						
7c	Install cables						
8	<i>ELEVATOR WORK PLATFORM SYSTEM (KOEHRING CRANE) (LRT 180A ROUGH TERRAIN)</i>						
	TR: TOs 21-LGM30G-2-18, 21-LG118A-2-18-2, 35D36-2-2						
8a	Inspect						
8b	Service						
8c	Operate						
8d	Repair components						
8e	Replace components						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
8f	Operational checkout						
8g	Proofload						
9	MOD 7 MGS AND PSRE AT AS&I/LF						
	TR: TOs 21-LG30G-2-33, 21M-LGM30F-2-17-3, 21M-LGM30G-2-8						
9a	Mate						
9b	Demate						
10	MOD 7/8 UMBILICAL						
	TR: TOs 21M-LGM30F-2-17-3, 21-LGM30X-2-18						
10a	Connect at missile						
10b	Disconnect at missile						
10c	Install						
10d	Remove						
11	MOD 7 INSTRUMENTATION CABLES (P/J753-P748) THIRD STAGE to PSRE						
	TR: TO 21M-LGM30F-2-17-3						
11a	Connect						
11b	Disconnect						
12	THIRD STAGE PSS SAFE/ARM ACTUATOR (AODS)						
	TR: TOs 21M-LGM30F-2-17-3, 21M-LGM30F-2-17-5						
12a	Install						
12b	Remove						
13	MOD 7/8 UMBILICAL AT INSTRUMENTATION BOX						
	TR: TOs 21M-LGM30F-2-17-3, 21M-LGM30F-2-17-4, 33D9-1-167-1						
13a	Analyze malfunctions						
13b	Certify system serviceability						
13c	Connect						
13d	Disconnect						
14	JUMPER NCU UMBILICAL AT LEPS RACK (LF04, LF09, LF10, LF26)						
	TR: TO 21M-LGM30F-2-17-3						
14a	Connect						
14b	Disconnect						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

15	<i>R/S SEPARATION CABLES</i>						
	TR: TOs 21M-LGM30F-2-17-3, 11NRS12-2-2						
15a	Connect						
15b	Disconnect						
16	<i>MOD 7 CTLI SAFING PINS</i>						
	TR: TO 21M-LGM30F-2-17-3						
16a	Remove						
16b	Install						
17	<i>REMOVE MISSILE POSITIONING POST FOR RSLP (LF03, LF05)</i>						
	TR: TO 21M-LGM30F-2-22						
18	<i>REMOVE MISSILE SUPPORT CLAMPS FOR RSLP (LF03, LF06)</i>						
	TR: TO 21M-LGM30F-2-22						
19	<i>UPLOAD/DOWNLOAD THIRD STAGE IN PT</i>						
	TR: THIRD STAGE TRAINER AID JAN 84						
20	<i>REMOVE/INSTALL COMMAND DESTRUCT ANTENNA COVERS</i>						
	TR: TO 21M-LGM30F-2-17-3						
21	<i>ROLL X-FER OF MSL FROM T/E TO MSB OR MPF</i>						
	TR: TOs 21M-LGM30F-2-2-1, 21M-LGM30F-2-17-1, 21M-LGM30F-2-17-9, 35D3-11-52-2, 35D3-11-52-1						
21a	Pre-roll procedures						
21b	Roll-transfer procedures						
21c	Post-roll transfer procedures						
22	<i>ROLL X-FER OF MSL FROM MSB OR MPF TO T/E</i>						
	TR: TOs 21M-LGM30F-2-2-1, 21M-LGM30F-2-17-1, 21M-LGM30F-2-17-9, 35D3-11-52-2						
22a	Pre-roll transfer procedures						
22b	Roll-transfer procedures						
22c	Post-roll transfer procedures						
23	<i>ROLL X-FER OF MSL FROM SSCBM TO MSB/MPF</i>						
	TR: TOs 21M-LGM30F-2-17-1, 21M-LGM30F-2-2-1, 21M-LGM30F-2-17--9, 35D3-11-52-2, 33A1-12-1124-1						
23a	Pre-roll transfer procedures						
23b	Roll-transfer procedures						
23c	Post-roll transfer procedures						

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24	ROLL X-FER OF MSL FROM MSB/MPF TO SSCBM						
	TR: TOs 21M-LGM30F-2-2-1, 21M-LGM30F-2-17-1, 21M-LGM30F-2-17-9, 35D3-11-52-2, 33A1-12-1124-1						
24a	Pre-roll transfer procedures						
24b	Roll-transfer procedures						
24c	Post-roll transfer procedures						
25	ROLL X-FER OF MSL FROM MT TO MSB/MPF						
	TR: TOs 21M-LGM30F-2-2-1, 21M-LGM30F-2-17-1, 21M-LGM30F-2-17-9, 35D3-11-52-2, 33A1-12-1124-1						
25a	Pre-roll transfer procedures						
25b	Roll-transfer procedures						
25c	Post-roll transfer procedures						
26	ROLL X-FER OF MSL FROM MSB/MPF TO MT						
	TR: TOs 21M-LGM30F-2-17-1, 21M-LGM30F-2-17-9, 21M-LGM30F-2-2-1, 35D3-11-52-2, 33A1-12-1124-1						
26a	Pre-roll transfer procedures						
26b	Roll-transfer procedures						
26c	Post-roll transfer procedures						
27	STORAGE TRANSIT ALARM SET						
	TR: TOs 21M-LGM30F-2-17-9, 21M-LGM30F-2-2-1						
27a	Install						
27b	Checkout						
27c	Remove						
28	FOLLOW PROCEDURES FOR SSCBM EMPTY ROCKET MOTOR CARRIAGE HANDLING USING FORKLIFT AND SLING						
	TR: TO 21M-LGM30F-2-2-1						
29	FOLLOW PROCEDURES FOR MT EMPTY ROCKET MOTOR CARRIAGE HANDLING USING FORKLIFT AND SLING						
	TR: TO 21M-LGM30F-2-2-1						
30	MISSILE EMPLACEMENT AT (LFO3) OR (LF06)						
	TR: TOs 21M-LGM30F-2-2-1, 35D3-11-52-2, 21-LGM30F-2-22						
30a	Position and tiedown T/E to the pylons						
30b	Prepare T/E for emplacement mode						
30c	Emplace missile						
30d	Performs post emplacement procedures						
30e	Remove missile positioning posts						

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30f	Remove missile support clamps						
31	MISSILE REMOVAL AT (LFO3) OR (LF06)						
	TR: TOs 21M-LGM30F-2-2-1, 21M-LGM30F-2-22, 35D3-11-52-2						
31a	Position and tiedown T/E to the pylons						
31b	Prepare T/E for removal mode						
31c	Remove missile						
31d	Performs postremoval procedures						
32	FOLLOW PROCEDURES TO INSTALL AND REMOVE FIRST STAGE CARRIAGE AFT BAND EXTENSION BLOCKS						
	TR: TO 21M-LGM30F-2-2-1						
33	LAUNCHER CLOSURE ARRESTOR ASSEMBLY						
	TR: TOs 21-LG118A-2-28, 21M-LGM30G-2-18, 21SM80B-2-26-5, 21SM80F-2-26: CEMs 33R1-771-1, 35R1-481-1, 35R1-581-5, 35R-1-681-1, 21SM118A-2-26-1						
33a	Inspect						
33b	Service						
33c	Repair						
33d	Leak test						
33e	Overhaul						
33f	Reset						
33g	Checkout						
33h	Rotation						
33i	Restoration						
34	D6A HYDRAULIC TEST STAND						
	TR: TOs 33A2-2-6-51, 33A2-2-23, 21M-LGM30X-2-18-X						
34a	Inspect						
34b	Service						
34c	Perform pre-operational procedures						
34d	Repair						
34e	Operate						
35	MISSILE TRANSFER WINCH SET CTL						
	TR: TO 35D4-2-45-1; AFOSH 127-46						
35a	Inspect cables						
35b	Replace cables						
35c	Perform functional checkout						
36	OPERATE PNEUMATIC SWAGGER						

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	TR: TOs 32A16-3-1, 33A8-4-6-1						
36a	Fabricate cable ends						
36b	Operate pull tester to verify cable ends						
37	LAUNCH FACILITY, MISSILE ALERT FACILITY AND SUPPORT BASE FACILITIES (PERSONNEL ACCESS SYSTEM - PRIMARY DOOR)						
	TR: TOs 21M-LGM30F-2-19, 21M-LGM30F-2-10-1, 35M-9-2-2						
37a	Troubleshoot hydraulic components						
37b	Remove hydraulic components						
37c	Replace hydraulic components						
38	TYPE I AND II TRANSPORTER						
	TR: TOs 35D3-11-46-1, 36A13-29-1, 21-LG118A-2-17-1, 38G1-84-1, 21-LG118A-6WC-5						
38a	Operate/perform pre-operational checkout						
38b	Position/stabilize						
38c	Destabilize						
38d	APU						
38d(1)	Perform pre-operational checkout						
38d(2)	Operate						
38e	Troubleshoot						
38f	Adjust ADS wedge block						
38g	Hydraulic system						
38g(1)	Operational checkout						
38g(2)	Inspect/service						
38g(3)	Troubleshoot						
38g(4)	Repair components						
38h	Transfer System						
38h(1)	Operational checkout						
38h(2)	Inspect/service						
38h(3)	Troubleshoot						
38h(4)	Repair components						
39	OSHKOSH TRACTOR						
	TR: TO 36A13-29-1						
39a	Perform pre-operational checkout						
39b	Operate						
40	STAGE CONTAINERS						

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	TR: TOs 35M1-10-2-1, 35E20-2-32-1, 21-LG118A-1-17, -12						
40a	Transfer from/to railcar to/from Type 1						
40b	Transfer from/to Type II to/from Type I						
40c	Transfer from/to Stor. pad to/from Type I						
40d	Transfer from/to SPF-A/B						
41	PERFORM HANGFIRE PROCEDURES						
	TR: TO 21-LG118A-2-17-2						
42	UMBILICAL RETRACTION MECHANISM (URM) AND MUG						
	TR: TOs 21-LG118A-2-241, 21-LG118A-2-28						
42a	Connect						
42b	Disconnect						
42c	Remove AVE/OSE power						
42d	Apply AVE/OSE power						
42e	Perform freon leak check						
42f	Remove MUG						
42g	Replace MUG						
42h	Reinstall MUG						
42i	Assemble						
42j	Disassemble						
43	CANNISTERS						
	TR: TOs 21-LG118A-2-241, 21-LG118A-1, 21-LG118A-2-34, 21-LG118A-2-41, 21-LG118A-2-28, 35M3-3-11-1						
43a	Adjust components						
43b	Remove components						
43c	Install components						
43d	Open Stage IV access door						
43e	Close Stage IV access door						
43f	Inspect access door fasteners						
43g	Repair access door fasteners						
43h	Velocity transducers						
43h(1)	Remove						
43h(2)	Install						
44	METERS						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-21, 21-LG118A-2-34, 21-LG118A-2-41, 21-LG118A-2-51, 21-LG118A-2-17-12, 33A1-12-928-1, 21-LG118A-2-17-42, 21-LG118A-2-17-32						

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44a	Electronic freon leak detector						
44b	Air sampling equipment						
44c	Optical micrometer						
	TR: Owners manual						
44d	Electronic checkout test set						
44e	Toxic gas detector						
44f	Electrostatic field meter						
44g	Milliohmeter						
45	<i>LAUNCH FACILITY LG118A (LF 02,05, AND 08)</i>						
	TR: TOs 21-LG118A-2-17-2, 21-LG118A-1, 21-LG118A-2-10						
45a	Enter LER						
45b	Enter LSB/LASB						
45c	Perform emergency shutdown						
45d	Follow emergency procedures for electrical isolation of LSB/LASB						
45e	Install MGCS/URM access barrier set						
45f	Remove MGCS/URM access barrier set						
45g	Exit LER						
45h	Exit LSB/LASB						
45i	Raise equipment						
45j	Lower equipment						
46	<i>MISSILE SUSPENSION SYSTEM</i>						
	TR: TO 21-LG118A-2-28						
46a	Remove launch bleed down initiator						
46b	Install launch bleed down initiator						
46c	Disconnect ordnance cable						
46d	Connect ordnance cable						
47	<i>LG-118 MISSILE AEROSPACE EQUIPMENT (AVE)</i>						
47a	Reentry system						
	TR: TOs 21-LG118A-2-33, 21-LG118A-2-17-2, 21-LG118A-2-241						
47a(1)	Mate						
47a(2)	Demate						
47a(3)	Perform roll transfer at AS&I						
47a(4)	Transport						
47a(5)	Perform roll transfer at emplacer						

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47a(6)	Perform and follow emergency procedures						
47b	Missile guidance and control set (MGCS)						
	TR: TOs 21-LG118A-1, 21-LG118A-2-34, 21-LG118A-12-1						
47b(1)	Remove						
47b(2)	Install						
47b(3)	Remove components						
47b(4)	Install components						
47b(5)	Load						
47b(6)	Unload						
47b(7)	Handle						
47b(8)	Transport						
47b(9)	Perform freon leak check						
47b(10)	Inspect						
47b(11)	Store						
48	LGM-118 MISSILE						
48a	Stage IV						
	TR: TOs 21-LG118A-2-52, 21-LG118A-2-51, 21-LG118A-2-17-42, 21-LG118A-2-241						
48a(1)	Inspect insulation						
48a(2)	Remove MGCS access door						
48a(3)	Install MGCS access door						
48a(4)	Repair stage IV access door nut plates						
48a(5)	Remove						
48a(6)	Install						
48a(7)	Perform ECTS test						
48a(8)	Perform roll transfer						
48a(9)	Perform and follow emergency procedures						
48a(10)	Transport						
48a(11)	Process for LF						
48a(12)	Process for shipment						
48a(13)	Process for storage						
48b	Stage III						
	TR: TOs 21-LG118A-2-17-1, 21-LG118A-2-17-12, 21-LG118A-2-51, 21-LG118A-2-241						
48b(1)	Remove						

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48b(2)	Install						
48b(3)	Perform ECTS test						
48b(4)	Perform roll transfer						
48b(5)	Perform and follow emergency procedures						
48b(6)	Transport						
48b(7)	Process at LF						
48b(8)	Process for shipment						
48b(9)	Process for storage						
48c	Stage II						
	TR: TOs 21-LG118A-2-17-1, 21-LG118A-2-17-12, 21-LG118A-2-51, 21-LG118A-2-241						
48c(1)	Remove						
48c(2)	Install						
48c(3)	Perform ECTS test						
48c(4)	Perform roll transfer						
48c(5)	Perform and follow emergency procedures						
48c(6)	Transport						
48c(7)	Process at LF						
48c(8)	Process for shipment						
48c(9)	Process for storage						
48d	Stage I						
	TR: TOs 21-LG118A-2-17-1, 21-LG118A-2-17-12, 21-LG118A-2-51, 21-LG118A-2-241						
48d(1)	Process for LF						
48d(2)	Analyze malfunctions						
48d(3)	Certify System Serviceability						
48d(4)	Transport						
48d(5)	Perform ECTS test						
48d(6)	Perform roll transfer						
48d(7)	Perform and follow emergency procedures						
48d(8)	Install						
48d(9)	Remove						
48d(10)	Process for shipment						
48d(11)	Process for storage						

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49	AIR ELEVATOR SEMITRAILER						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-33, 21-LG118A-2-141, 33M10-7-5-1, 35M19-2-22-1, 35M1-10-3-2, 35M10-7-5-1, 35M10-6-1, 34Y18-5-1, 21-LG118A-6WC-5, 11F53-3-7, 36C-13-1						
49a	Operate						
49b	Position						
49c	Connect						
49d	Disconnect						
49e	Perform pre-operational checkout						
49f	Operate air elevator control module panel						
49g	Hydraulic System						
49g(1)	Operational checkout						
49g(2)	Inspect/service						
49g(3)	Troubleshoot						
49g(4)	Repair components						
49h	Pneumatic System						
49h(1)	Operational checkout						
49h(2)	Inspect/service						
49h(3)	Troubleshoot						
49h(4)	Repair components						
49i	Air Compressor						
49i(1)	Inspect/service						
49i(2)	Troubleshoot						
49i(3)	Repair components						
49j	After Cooler						
49j(1)	Inspect						
49j(2)	Troubleshoot						
49j(3)	Repair components						
49k	Desiccant Dryer						
49k(1)	Inspect						
49k(2)	Troubleshoot						
49k(3)	Repair components						
49l	Fire Suppression Systems						
49l(1)	Inspect						

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49l(2)	Troubleshoot						
49l(3)	Repair components						
50	MISSILE GUIDANCE AND CONTROL SUPPORT TRUCK						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-34, 36A13-31-1, 36A13-31-1, 21-LG118A-6WC-3, 36Y35-27-1, 36M1-16-1, 36M1-2-16-1C						
50a	Analyze malfunctions						
50b	Certify system serviceability						
50c	Perform pre-operational check out of vehicle						
50d	Hoists						
50d(1)	Inspect						
50d(2)	Service						
50d(3)	Operational checkout						
50d(4)	Operate						
50d(5)	Troubleshoot						
50d(6)	Repair Components						
50e	Operate APU						
50f	Auxiliary hoist						
50f(1)	Inspect						
50f(2)	Repair components						
50g	Container assembly						
50g(1)	Inspect						
50g(2)	Repair components						
51	EMPLACER						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-32, 21-LG118A-2-33, 36A9-11-141, 21-LG118A-2-17-32, 36A9-11-14-1, 21-LG118A-6WC-3, 21-LG118A-6WC-5						
51a	Position and perform tiedown/stabilization						
51b	Analyze malfunctions						
51c	Certify system serviceability						
51d	Work platforms						
51d(1)	Install						
51d(2)	Remove						
51e	Operate emplacer control panel						
51f	Perform preoperational checkout						
51g	Operate						

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51h	Hydraulic system						
51h(1)	Operational checkout						
51h(2)	Inspect/service						
51h(3)	Troubleshoot						
51h(4)	Repair components						
51h(5)	Adjust						
51i	Missile emplacement system						
51i(1)	Analyze malfunctions						
51i(2)	Certify system serviceability						
51i(3)	Operational checkout						
51i(4)	Inspect/service						
51i(5)	Troubleshoot						
51i(6)	Repair components						
51i(7)	Adjust						
51j	Container assembly						
51j(1)	Repair components						
51j(2)	Repair components						
52	<i>ELEVATOR WORKCAGE AND HOIST ASSEMBLY (409-52-874/875)</i>						
	TR: 21-LG118A-2-10, 35M3-8-11-1, 21-LG118A-2-28, 21M-LGM30G-2-28, 21M-LGM30G-2-28-1, 33K-1-X, 35M-3-16-2						
52a	Install two man						
52b	Remove two man						
52c	Operate two man						
52d	Inspect						
52e	Service						
52f	Perform trouble analysis						
52g	Repair components						
53	<i>PEACEKEEPER TRANSPORTATION AND HANDLING EQUIPMENT</i>						
	TR: TOs 21-LG118A-2-10, 21-LG118A-218-2, 21-LG118A-2-34, 35M3-8-14-1, 35M3-8-11-1						
53a	Missile guidance and control emplacement set						
53a(1)	Inspect						
53a(2)	Repair components						
53a(3)	Remove components						
53a(4)	Replace components						

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53a(5)	Adjust components						
53b	MGCS rotation fixture						
53b(1)	Operation						
53b(2)	Inspect						
53b(3)	Repair components						
53b(4)	Remove components						
53b(5)	Replace components						
53c	LER 1 work platform						
53c(1)	Description						
53c(2)	Inspect						
53c(3)	Repair components						
53c(4)	Install						
53c(5)	Remove						
53d	LER 2 work platform						
53d(1)	Description						
53d(2)	Inspect						
53d(3)	Repair components						
53d(4)	Install						
53d(5)	Remove						
54	<i>PNEUMATIC CONTROL CART ASSEMBLY (409-52-874/875)</i>						
	TR: TOs 21-LG118A-2-10, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-6WC-3, 35D29-8-8-1						
54a	Perform pre-operational checkout						
54b	Operate						
54c	Inspect and service						
54d	Troubleshoot						
54e	Repair components						
55	<i>LAUNCH EJECTION GAS GENERATOR (LEGG)</i>						
	TR: 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-2-241						
55a	Install						
55b	Remove						
55c	Prepare for shipment						
55d	Process						
55e	Perform emergency procedures						

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56	LONGITUDINAL SUPPORT ASSEMBLY (LSA)						
	TR: 21-LG118A-2-10, 21-LG118A-2-31, 21-LG118A-2-32, 21-LG118A-2-33, 21-LG118A-2-241						
56a	Install						
56b	Remove						
57	OVERHEAD CRANES						
	TR: 21-LG118A-2-31, CEM 21-SM118A-2-232-2, AFOSH 127-46						
57a	Operate						
57b	Perform emergency procedures						
58	MISSILE HANDLING EQUIPMENT						
	TR: 21-LG118A-2-31, 35D6-23-1, 35M-8-15-1, 35M35-6-1, 21-LG118A-2-17-12						
58a	End ring						
58a(1)	Install						
58a(2)	Remove						
58a(3)	Perform pre-operational checkout						
58b	Lifting adapter						
58b(1)	Install						
58b(2)	Remove						
58b(3)	Perform pre-operational checkout						
58c	Saddle pallet cradle assembly						
58c(1)	Install						
58c(2)	Remove						
58c(3)	Perform pre-operational checkout						
58d	Carriages						
58d(1)	Install						
58d(2)	Remove						
58d(3)	Perform pre-operational checkout						
58d(4)	Roll transfer						
58e	Handling slings						
58e(1)	Install						
58e(2)	Remove						
58e(3)	Perform pre-operational checkout						
59	LOAD POSITIONER						
	TR: TOs 21-LG118A-2-31, 35D2-5-3-16, 35D4-3-11-1, 21-LG118A-2-17-12						

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59a	Operate 5 ton						
59b	Operate 10 ton						
59c	Operate 25 ton						
60	STAGE IV HANDLING SLINGS						
	TR: TOs 36D6-6-23-1, 21-LG118A-6WC-3						
60a	Inspect/service						
60b	Troubleshoot						
60c	Repair components						
61	CONTAINER HANDLING SPREADER						
	TR: TOs 32A-34-3-1, 21-LG118A-6WC-3						
61a	Inspect/service						
61b	Troubleshoot						
61c	Repair components						
62	STAGE I/II/III/IV END RING SET						
	TR: TOs 35M35-6-1, 21-LG118A-6WC-3						
62a	Inspect/service						
62b	Troubleshoot						
62c	Repair components						
63	STAGE I/II/III/IV CARRIAGE SET						
	TR: TOs 35M35-6-1, 21-LG118A-6WC-3						
63a	Inspect/service						
63b	Troubleshoot						
63c	Repair components						
64	REENTRY SYSTEM CARRIAGES						
	TR: TOs 35M35-6-1, 21-LG118A-6WC-3						
64a	Inspect/service						
64b	Troubleshoot						
64c	Repair components						
65	STAGE IV/RS/LEGG/LSA CARRIAGE SLING						
	TR: TOs 35M35-8-15-1, 21-LG118A-6WC-3						
65a	Inspect/service						
65b	Troubleshoot						
65c	Repair components						
66	LEGG/LSA CARRIAGE SET						

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	TR: TOs 35M35-8-6-1, 21-LG118A-6WC-3						
66a	Inspect/service						
66b	Troubleshoot						
66c	Repair components						
67	HYDRAULIC PURIFICATION UNIT						
	TR: TO 35M15-2-9-1						
67a	Operational checkout						
67b	Inspect/service						
67c	Troubleshoot						
67d	Repair components						
68	STAGE I/II/III SHIPPING & STORAGE CONTAINER						
	TR: TOs 35E20-2-32-1, 21-LG118A-6WC-3						
68a	Inspect						
68b	Repair						
69	STAGE IV SHIPPING & STORAGE CONTAINER						
	TR: TOs 35E20-2-35-1, 21-LG118A-6WC-3						
69a	Inspect/service						
69b	Troubleshoot						
69c	Repair components						
70	STAGE IV/RS/LEGG/LSA						
	TR: TOs 35E20-2-38-1, 21-LG118A-6WC-3						
70a	Inspect/service						
70b	Repair components						
71	REENTRY SYSTEM TRANSPORT VEHICLE						
	TR: 35M3-8-13-1, 21-LG118A-6WC-3						
71a	Inspect						
71b	Repair components						
72	END RING HANDLING SLING						
	TR: TOs 35M3-8-15-1, 21-LG118A-6WC-3						
72a	Inspect/service						
72b	Repair components						
73	STAGE III HANDLING BEAM						
	TR: TOs 35M3-8-15-1, 21-LG118A-6WC-3						
73a	Inspect						

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73b	Repair components						
74	SOLID STAGE LIFTING ADAPTER SET						
	TR: TOs 35M3-8-15-1, 21-LG118A-6WC-3						
74a	Inspect						
74b	Repair components						
75	AUXILIARY SUPPORT EQUIPMENT						
	TR: TOs 35D3-11-49-1, 21-LG118A-6WC-3						
75a	Inspect						
75b	Repair components						
76	STAGE III LIFTING SADDLE PALLET						
	TR: TOs 35M3-8-15-1, 21-LG118A-6WC-3						
76a	Inspect/service						
76b	Repair components						
77	GCCU LRU ADAPTER HANDLING SET						
	TR: TOs 35M3-8-11-1, 21-LG118A-6WC-3						
77a	Inspect						
77b	Repair components						
78	MJ1-1 DIESEL HYDRAULIC TEST STAND						
	TR: TOs 33A2-2-21-31, 33A2-2-1-146WC-1, 33A2-2-1-166WC-2						
78a	Operational checkout						
78b	Inspect/service						
78c	Troubleshoot						
78d	Repair components						
78e	Operate						
79	PROOFLOAD TEST OPERATION						
	TR: TOs 36A9-11-14-1, 33A2-2-21-31, 35M3-8-11-1						
79a	Emplacer						
79b	Elevator workcage hoist set						
79c	Elevator workcage						
80	LIQUID SPRING SERVICE KIT						
	TR: TOs 21-LG118A-2-28, 35M3-3-11-1						
80a	Operate						
80b	Inspect						
80c	Service						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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80d	Perform functional check						
80e	Repair						
80f	Troubleshoot						
81	<i>MGCS FLOOR ACCESS BARRIER</i>						
	TR: TOs 35M3-8-11-1, 21-LG118A-6WC-3						
81a	Inspect						
81c	Repair components						
82	<i>STAGE IV TILT HANDLER</i>						
	TR: 35D25-1-102						
82a	Inspect						
82b	Service						
83	<i>REMOVE PORT SEALS</i>						
	TR: TOs 21-LG118A-2-17-12						
83a	Stage I						
83b	Stage II						
84	<i>FIRING UNIT/SIGNAL CONDITIONER (FU/FUSC) MOUNTING BRACKETS</i>						
	TR: TOs 21-LG118A-2-17-12						
84a	Install stage II						
84b	Remove stage II						
85	<i>FIRING UNIT/SIGNAL CONDITIONER (FU/FUSC)</i>						
	TR: TOs 21-LG118A-2-17-42, 21-LG118A-2-248, 21-LG118A-2-17-12						
85a	Install						
85a(1)	Stage I						
85a(2)	Stage II						
85a(3)	Stage III						
85a(4)	Stage IV						
85b	Remove						
85b(1)	Stage I						
85b(2)	Stage II						
85b(3)	Stage III						
85b(4)	Stage IV						
86	<i>LINEAR SHAPED CHARGE ORDNANCE TRANSMISSION ASSEMBLY (LSC/OTA)</i>						
	TR: TOs 21-LG118A-2-17-12						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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86a	Install						
86a(1)	Stage I						
86a(2)	Stage II						
86a(3)	Stage III						
86b	Remove						
86b(1)	Stage I						
86b(2)	Stage II						
86b(3)	Stage III						
87	TEST LAUNCH CABLE SET (TLCS)						
	TR: TOs 21-LG118A-2-51, 21-LG118A-2-17-12						
87a	Install						
87a(1)	Stage I						
87a(2)	Stage II						
87a(3)	Stage III						
87b	Remove						
87b(1)	Stage I						
87b(2)	Stage II						
87b(3)	Stage III						
87c	Checkout						
87c(1)	Analyze malfunctions						
87c(2)	Certify system serviceability						
87c(3)	Stage I						
87c(4)	Stage II						
87c(5)	Stage III						
88	ELECTRICAL CHECKOUT TEST SET (ECTS)						
	TR: TOs 21-LG118A-2-51, 21-LG118A-2-17-12, 33D9-54-68-2						
88a	Set up						
88b	Self test						
89	PERFORM LOW VOLTAGE CONTINUITY TEST SET (LVCTS) CONTINUITY TEST						
	TR: TOs 21-LG118A-2-17-12, 33D9-89-24-1						
89a	Analyze malfunctions						
89b	Certify system serviceability						
89c	Stage I						
89d	Stage II						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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89e	Stage III						
90	PERFORM STAGE TEST SET (STS) CONTINUITY TEST						
	TR: TOs 21-LG118A-2-17-12, 33D9-89-23-1						
90a	Stage I						
90b	Stage II						
90c	Stage III						
91	INSTALL CONNECTOR BOOTS AND THERMAL INSULATION						
	TR: TOs 21-LG118A-2-17-12						
91a	Stage I						
91b	Stage II						
91c	Stage III						
92	ORDNANCE TRANSMISSION ASSEMBLY (OTA) EXPLODING BRIDGEWIRE (EBW)						
	TR: TOs 21-LG118A-2-17-12, 21-LG118A-2-17-42						
92a	Connect						
92a(1)	Stage I						
92a(2)	Stage II						
92a(3)	Stage III						
92a(4)	Stage IV						
92b	Disconnect						
92b(1)	Stage I						
92b(2)	Stage II						
92b(3)	Stage III						
92b(4)	Stage IV						
93	CONNECT TEST LAUNCH CABLE SET (TLCS) TO FTOS COMPONENTS						
	TR: TOs 21-LG118A-2-17-12						
93a	Stage I						
93b	Stage II						
93c	Stage III						
94	PRESSURE SWITCH ASSEMBLY (PS)						
	TR: TOs 21-LG118A-2-17-12, 21-LG118A-2-17-42						
94a	Install						
94a(1)	Stage II						
94a(2)	Stage III						

ATTACHMENT 4
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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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94a(3)	Stage IV						
94b	Remove						
94b(1)	Stage II						
94b(2)	Stage III						
94b(3)	Stage IV						
95	REMOVE RACEWAY GROMMETS STAGE III						
	TR: TO 21-LG118A-2-17-12						
96	BATTERY VENT KIT						
	TR: TO 21-LG118A-2-17-42						
96a	Install stage IV						
96b	Remove stage IV						
97	ORDNANCE TRANSMISSION ASSEMBLY (OTA)						
	TR: TO 21-LG118A-2-17-42						
97a	Install stage IV						
97b	Remove stage IV						
98	IFSS/FTOS ACCESS DOOR						
	TR: TOs 21-LG118A-2-17-42, 21-LG118A-2-17-32						
98a	Install stage IV						
98b	Remove stage IV						
99	INSTRUMENTATION AND FLIGHT SAFETY SYSTEM (IFSS) CABLE HARNESS						
	TR: TO 21-LG118A-2-17-42						
99a	Analyze malfunctions						
99b	Certify system serviceability						
99c	Install stage IV						
99d	Remove stage IV						
100	FUEL LINE SEVERANCE ASSEMBLY						
	TR: TO 21-LG118A-2-17-42						
100a	Install stage IV						
100b	Remove stage IV						
101	INSTRUMENTATION AND FLIGHT SAFETY SYSTEM (IFSS) A/D SW						
	TR: TO 21-LG118A-2-17-42, 33D9-89-23-1						
101a	Functional test						
101b	Install stage IV						
101c	Remove stage IV						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

102	CHECKOUT OF THE FTOS CIRCUITS (STS/LVCTS) STAGE IV						
	TR: TOs 21-LG118A-2-17-42, 33D9-89-26-1, 33D9-89-23-1						
103	PERFORM CHECKOUT OF THE FTOS COMPONENTS (STS) STAGE IV						
	TR: TOs 21-LG118A-2-17-42, 33D9-89-23-1						
104	ANTENNA PROVISION PANELS						
	TR: TO 21-LG118A-2-17-42						
104a	Install stage IV						
104b	Remove stage IV						
105	COMMAND ANTENNA						
	TR: 21-LG118A-2-17-42						
105a	Install stage IV						
105b	Remove stage IV						
106	LIGHTNING SUPPRESSOR ASSEMBLY (LSA) AND COMMAND COUPLER						
	TR: TO 21-LG118A-2-17-42						
106a	Install stage IV						
106b	Remove stage IV						
107	COMMAND ANTENNA SYSTEM RF CABLES						
	TR: TO 21-LG118A-2-17-42						
107a	Install stage IV						
107b	Remove stage IV						
108	PERFORM UHF COMMAND ANTENNA CHECKOUT STAGE IV						
	TR: TOs 21-LG118A-2-17-42, 33D9-89-26-1						
109	PERFORM INSTRUMENTATION FLIGHT SAFETY SYSTEM (IFSS) CHECKOUT (ECTS) STAGE IV						
	TR: TOs 21-LG118A-2-17-42, 21-LG118A-2-51						
110	OPERATE TILT HANDLES STAGE IV						
	TR: TO 21-LG118A-2-17-42						
111	FTOS/IFSS AVE COMPONENTS						
	TR: TOs 21-LG118A-2-17-42, 11A15-1-427-1						
111a	Unpack/Inspect						
111b	Packing						
111c	Transport						
112	PERFORM STAGE TLCS/IFSS CHECKOUT (LF)						
	TR: TOs 21-LG118A-2-17-32, 21-LG118A-2-51						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

112a	Stage II to I						
112b	Stage III to I						
112c	Stage IV to I						
112d	RS to I						
113	PERFORM STAGE FTOS CIRCUIT CONTINUITY CHECKS (LVCTS) (LF)						
	TR: TO 21-LG118A-2-17-32						
113a	Stage II to I						
113b	Stage III to I						
113c	Stage IV to I						
114	PERFORM IFSS CABLE CONTINUITY CHECK (LF) RS / STAGE IV						
	TR: TOs 21-LG118A-2-17-32						
115	PRESSURE SWITCH (PS)(LF)						
	TR: TO 21-LG118A-2-17-32						
115a	Connect stage IV						
115b	Disconnect stage IV						
116	RS/STAGE IV IFSS CABLE THRU STAGE IV IFSS/FTOS ACCESS DOOR (LF)						
	TR: TO 21-LG118A-2-17-32						
116a	Connect RS /Stage IV						
116b	Disconnect RS/Stage IV						
117	RS/STAGE IV IFSS CABLE THRU MGCS ACCESS DOOR (LF)						
	TR: TO 21-LG118A-2-17-32						
117a	Connect RS /Stage IV						
117b	Disconnect RS/Stage IV						
118	MGCS IFSS ELECTRICAL CABLES (LF)						
	TR: TO 21-LG118A-2-17-32						
118a	Connect Stage IV						
118b	Disconnect Stage IV						
119	TEST LAUNCH CABLE SET (TLCS) CLAMPS (LF)						
	TR: TO 21-LG118A-2-17-32						
119a	Install Stage III						
119b	Remove Stage III						
120	RE-ESTABLISH GROUND STAGES I,II,III						
	TR: TO 21-LG118A-2-17-12						
121	REPOSITION FLIGHT CONTROL ORDNANCE CABLES STAGE III						

ATTACHMENT 4
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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

	TR: TO 21-LG118A-2-17-12						
122	PERFORM MISSILE SAFETY CHECK						
122a	"F" minuteman II missile						
122b	"G" minuteman III missile						
123	PERFORM MISSILE RECEIPT INSPECTION						
	TR: TO 21M-LGM30F-2-17-5						
123a	"F" minuteman II missile						
123b	"G" minuteman III missile						
124	RACEWAY COVERS						
	TR: To 21M-LGM30F-2-17-5						
124a	Install						
124a(1)	"F" minuteman II missile						
124a(2)	"G" minuteman III missile						
124b	Remove						
124b(1)	"F" minuteman II missile						
124b(2)	"G" minuteman III missile						
125	VERTICAL RESTRAINT BANDS						
	TR: TO 21M-LGM30F-2-17-5						
125a	Install						
125a(1)	"F" minuteman II missile						
125a(2)	"G" minuteman III missile						
125b	Remove						
125b(1)	"F" minuteman II missile						
125b(2)	"G" minuteman III missile						
126	NOZZLE SHIPPING LINKS						
	TR: TO 21M-LGM30F-2-17-5						
126a	Install						
126b	Remove						
127	WORK PLATFORM						
	TR: TO 21M-LGM30F-2-17-5						
127a	Install						
127a(1)	"F" minuteman II missile						
127a(2)	"G" minuteman III missile						
127b	Remove						

ATTACHMENT 4
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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

127b(1)	"F" minuteman II missile						
127b(2)	"G" minuteman III missile						
128	PERFORM HAZARDOUS CURRENT CHECK						
	TR: TO 21M-LGM30F-2-17-5						
129	DESTRUCT ASSEMBLIES						
	TR: TO 21M-LGM30F-2-17-5, 11A15-1-167-1						
129a	Install						
129a(1)	Install destruct assemblies "F" Minuteman II missile						
129a(2)	Install destruct assemblies "G" Minuteman III missile						
129b	Remove						
129b(1)	Remove destruct assemblies "F" Minuteman II missile						
129b(2)	Remove destruct assemblies "G" Minuteman III missile						
129c	Inadvertent separation destruct system						
129c(1)	Install components						
129c(2)	Remove components						
130	BASE ADAPTER RING MODIFICATION KIT						
	TR: TO 21M-LGM30F-2-17-5						
130a	Install						
130b	Remove						
131	OPERATIONAL MISSILE SUPPORT ADAPTER RING						
	TR: TO 21M-LGM30F-2-17-5						
131a	Install						
131b	Remove						
132	MODIFIED MISSILE SUPPORT ADAPTER RING						
	TR: TO 21M-LGM30F-2-17-5						
132a	Install						
132b	Remove						
133	COMMAND DESTRUCT SAFE/ARM DEVICE "F" Minuteman II missile						
	TR: TOs 21M-LGM30F-2-17-5, 11A15-1-167-1, 33D9-108-11-1						
133a	Install						
133b	Remove						
133c	Checkout						
134	PREMATURE STAGE SEPARATION SAFE ARM DEVICE						
	TR: TOs 21M-LGM30F-2-17-5, 11A15-1-167-1, 33D9-108-11-1						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

134a	Install						
134a(1)	F Minuteman II missile						
134a(2)	G Minuteman III missile						
134b	Remove						
134b(1)	F Minuteman II missile						
134b(2)	G Minuteman III missile						
134c	Checkout						
135	<i>PREMATURE STAGE SEPARATION BATTERIES AT THE MPF</i>						
	TR: TO 21M-LGM30F-2-17-5, 11A15-1-167-1						
135a	Install						
135a(1)	"F" minuteman II missile						
135a(2)	"G" minuteman III missile						
135b	Remove						
135b(1)	"F" minuteman II missile						
135b(2)	"G" minuteman III missile						
135c	Checkout						
136	<i>PREMATURE STAGE SEPARATION BATTERIES AT THE LF</i>						
	TR: 21M-LGM30F-2-17-5						
136a	Install						
136a(1)	"F" minuteman II missile						
136a(2)	"G" minuteman III missile						
136b	Remove						
136b(1)	"F" minuteman II missile						
136b(2)	"G" minuteman III missile						
137	<i>PREMATURE STAGE SEPARATION TIMERS AT THE MPF</i>						
	TR: TO 21M-LGM30F-2-17-5						
137a	Install						
137a(1)	"F" minuteman II missile						
137a(2)	"G" minuteman III missile						
137b	Remove						
137b(1)	"F" minuteman II missile						
137b(2)	"G" minuteman III missile						
137c	Checkout						
138	<i>PREMATURE STAGE SEPARATION TIMERS AT THE LF</i>						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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	TR: TO 21M-LGM30F-2-17-5						
138a	Install						
138a(1)	"F" minuteman II missile						
138a(2)	"G" minuteman III missile						
138b	Remove						
138b(1)	"F" minuteman II missile						
138b(2)	"G" minuteman III missile						
139	<i>CHECKOUT MISSILE OPERATIONAL PRESSURE TRANSDUCERS</i>						
	TR: TO 21M-LGM30F-2-17-5						
139a	"F" minuteman II missile						
139b	"G" minuteman III missile						
140	<i>PERFORM ELECTRICAL BONDING CHECKS</i>						
	TR: TO 21M-LGM30F-2-17-5						
140a	"F" minuteman II missile						
140b	"G" minuteman III missile						
141	<i>PERFORM FAULT ISOLATION/CONTINUITY CHECKOUT OF LSS CABLE</i>						
	TR: TO 21M-LGM30F-2-17-5						
141a	"F" minuteman II missile						
141b	"G" minuteman III missile						
142	<i>MOD 8 LSS CABLE</i>						
	TR: TO 21M-LGM30F-2-17-5						
142a	Install "F" minuteman II missile						
142b	Remove "F" minuteman II missile						
143	<i>ALIGN NCU UMBILICAL CLAMP</i>						
	TR: TO 21M-LGM30F-2-17-5						
144	<i>PERFORM CONTINUITY CHECK OF J745</i>						
	TR: TO 21M-LGM30F-2-17-5						
144a	"F" minuteman II missile						
144b	"G" minuteman III missile						
145	<i>MOD 7 LSS CABLE</i>						
	TR: TO 21M-LGM30F-2-17-5						
145a	Install "G" minuteman III missile						
145b	Remove "G" minuteman III missile						
146	<i>CHECKOUT PREMATURE STAGE SEPARATION SAFE/ARM</i>						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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	ACTUATOR "G" MM III						
	TR: TO 21M-LGM30F-2-17-5						
147	PREMATURE STAGE SEPARATION INERTIA SWITCH						
	TR: TO 21M-LGM30F-2-17-5						
147a	Install "G" minuteman III missile						
147b	Remove "G" minuteman III missile						
147c	Checkout "G" minuteman III missile						
148	SIGNAL CONDITIONER						
	TR: TO 21M-LGM30F-2-17-5						
148a	Install "G" minuteman III missile						
148b	Remove "G" minuteman III missile						
148c	Checkout "G" minuteman III missile						
149	PERFORM PSRE SAFETY CHECK						
	TR: TO 21M-LGM30F-2-17-5						
150	PERFORM PSRE RECEIPT INSPECTION						
	TR: TO 21M-LGM30F-2-17-5						
151	PSRE THERMAL INSULATION BLANKET AND BRACKETS						
	TR: TO 21M-LGM30F-2-17-5						
151a	Install						
151b	Remove						
152	PSRE DESTRUCT ASSEMBLIES						
	TR: TO 21M-LGM30F-2-17-5						
152a	Install						
152b	Remove						
153	PSRE INSTRUMENTATION CABLE						
	TR: TO 21M-LGM30F-2-17-5						
153a	Install						
153b	Remove						
153c	Fault isolation/continuity checkout						
154	PSRE COMMAND DESTRUCT SAFE/ARM DEVICE						
	TR: TO 21M-LGM30F-2-17-5, 33D9-108-11-1, 11A15-1-167-1						
154a	Install						
154b	Remove						
154c	Checkout						

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155	<i>PSRE SE339A/HRU-1126/A CABLE</i>						
	TR: TO 21M-LGM30F-2-17-5						
155a	Install						
155b	Remove						
155c	Checkout fault isolation/continuity						
156	<i>PERFORM PSRE HAZARDOUS CURRENT CHECK</i>						
	TR: TO 21M-LGM30F-2-17-5						
157	<i>PERFORM PSRE ELECTRICAL BONDING CHECKS</i>						
	TR: TO 21M-LGM30F-2-17-5						
158	<i>CHECKOUT OF PSRE OPERATIONAL PRESSURE TRANSDUCERS</i>						
	TR: TO 21M-LGM30F-2-17-5						
159	<i>TRANSPORT/HANDLE ALL ORDNANCE</i>						
	TR: TO 21M-LGM30F-2-17-5, 11A15-1-167-1, AFI 91-201,						
160	<i>BALLISTIC END CLAMP</i>						
	TR: TO 33D9-68-30-1						
160a	Inspect						
160b	Proofload						
161	<i>NCU CABLE ASSEMBLY HOIST CLAMP</i>						
	TR: TO 33D9-68-30-1						
161a	Inspect						
161b	Proofload						
162	<i>LOCK REMOVAL ROD</i>						
	TR: TO 33D9-68-30-1						
162a	Inspect						
162b	Proofload						
163	<i>FOUR-PERSON WORK BASKET</i>						
	TR: TO 33D9-68-30-1						
163a	Inspect						
163b	Proofload						
164	<i>TWO-PERSON WORK BASKET</i>						
	TR: TO 33D9-68-30-1						
164a	Inspect						
165b	Proofload						
165	<i>WORK PLATFORM</i>						

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ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
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	TR: TO 33D9-68-30-1						
165a	Inspect						
165b	Proofload						
166	BARREL SLING						
	TR: TO 33D9-68-30-1						
166a	Inspect						
166b	Proofload						
167	STABILIZER CHAIN ASSEMBLY						
	TR: TO 33D9-68-30-1						
167a	Inspect						
167b	Proofload						
168	SIMULATOR WORK CAGE						
	TR: TO 33D9-68-30-1						
168a	Inspect						
168b	Proofload						
169	AIR ELEVATOR SUPPORT TRAILER						
	TR: TOs 35M10-7-5-1, 35M-7-6-1, 38G1-82-12, 35M19-2-22-1, 35M-8-17-1, 36C8-13-1, 21-LG118A-6WC-5						
169a	Electrical systems						
169a(1)	Inspect						
169a(2)	Troubleshoot						
169a(3)	Repair						
169b	ECS (refrigeration unit)						
169b(1)	Inspect/Service						
169b(2)	Troubleshoot						
169b(3)	Repair						
169c	Diesel engine						
169c(1)	Inspect/Service						
169c(2)	Troubleshoot						
169c(3)	Repair						
169d	Fire suppression system						
169d(1)	Inspect/Service						
169d(2)	Troubleshoot						
169d(3)	Repair						
170	SUPPORT TRUCK						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

	TR: TOs 36A1-31-1, 35C2-3-475-2, 35C2-3-479-1, 35C2-3-479-4, 35C2-3-480-1, 21-LG118A-6WC-3						
170a	Electrical system						
170a(1)	Inspect/Service						
170a(2)	Troubleshoot						
170a(3)	Repair						
170b	ECS						
170b(1)	Troubleshoot						
170b(2)	Repair						
170c	Diesel engine						
170c(1)	Inspect/service						
170c(2)	Operational checkout						
170c(3)	Troubleshoot						
170c(4)	Repair						
170d	Hoist (electrical)						
170d(1)	Inspect/service						
170d(2)	Operational checkout						
170d(3)	Troubleshoot						
170d(4)	Repair						
171	TRANSPORTER SEMITRAILER TYPE I						
	TR: TOs 35D3-11-46-1, 21-LG118A-6WC-5						
171a	Electrical system						
171a(1)	Inspect						
171a(2)	Troubleshoot						
171a(3)	Repair						
171b	Diesel engine						
171b(1)	Inspect/service						
171b(2)	Operational checkout						
171b(3)	Troubleshoot						
171b(4)	Repair						
172	TRANSPORTER SEMITRAILER TYPE II						
	TR: TOs 35D3-11-46-1, 21-LG118A-6WC-5						
172a	Electrical system						
172a(1)	Inspect						
172a(2)	Toubleshoot						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

172a(3)	Repair						
172b	Diesel engine						
172b(1)	Inspect/service						
172b(2)	Operational checkout						
172b(3)	Troubleshoot						
172b(4)	Repair						
173	EMPLACER						
	TR: TOs 36A-9-11-14-1, 21-LG118A-6WC-3, 21-LG118A-6WC-5						
173a	Electrical system						
173a(1)	Inspect						
173a(2)	Troubleshoot						
173a(3)	Repair						
173b	Hoist (electrical)						
173b(1)	Inspect						
173b(2)	Troubleshoot						
173b(3)	Repair						
173c	Ventilation system						
173c(1)	Inspect						
173c(2)	Repair						
174	STAGE IV/RS/LEGG/LSA EMPLACEMENT CONTAINER PHYSICAL SECURITY SYSTEM						
	TR: TOs 35E20-2-38-1, 21-LG118A-6WC-3						
174a	Inspect						
174b	Operational checkout						
174c	Troubleshoot						
174d	Repair						
175	STAGE II/III & IV EMPLACEMENT CONTAINER APU/ECS PACKAGE						
	TR: TO 35M1-10-2-1, 35E20-2-38-1, 35C2-3-475-2, 35C2-3-479-1, 35C2-3-480-1, 21-LG118A-6WC-3						
175a	Inspect/service						
175b	Operational checkout						
175c	Troubleshoot						
175d	Repair						
176	MJ1-1 DIESEL HYDRAULIC TEST STAND DIESEL ENGINE						
	TR: TOs 33A2-2-21-31, 33A2-2-1-146WC-1, 33A3-3-1-166WC-2						

ATTACHMENT 4
AFSC 2M0X2 STS
ICBM FORCE DEVELOPMENT EVALUATION MAINTENANCE TASKS
(VANDENBERG ONLY)

176a	Inspect/service						
176b	Operational checkout						
176c	Troubleshoot						
176d	Repair						
177	<i>UNINTERRUPTIBLE POWER SUPPLY (BATTERIES)</i>						
	TR: TOs 21-LG118A-2-62, 21-LG118A-6WC-1, CEM 21-SM118A-2-20-1						
177a	Inspect/service						
177b	Remove and replace components						
177c	Troubleshoot						
177d	Repair						
178	<i>GUIDANCE AND CONTROL CONDITIONING UNIT</i>						
	TR: TOs 21-LG118A-2-6, 35D9-232-1						
178a	Filter drier assembly						
178a(1)	Checkout						
178a(2)	Repair						
178b	Manifold assembly						
178b(1)	Checkout						
178b(2)	Repair						
179	<i>OPERATE OSCILLOSCOPE 466/464</i>						
	TR: TOs 33A1-13-509-1						

ATTACHMENT 5
AFSC 2M0X2 STS
SPACELIFT MECHANICAL MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFYING
TASK #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	MAINTENANCE CONTROLLER COMMON TASKS						
	TR: AFSPCI 21-0108, EWR 127-1, Local directives and operating instructions						
1a	Support						
1a(1)	Program/readiness reviews						
1a(2)	Problem resolutions/troubleshooting						
1b	Perform						
1b(1)	Post launch actions						
1b(2)	Launch day activities						
1b(3)	Walk-down procedures						
1b(4)	Disaster recovery operations						
1b(5)	Data reviews/procedure closeout						
1c	Ensure compliance with						
1c(1)	Procedures						
1c(2)	Local safety plans						
1c(3)	Configuration control						
1c(4)	Emergency procedures						
1c(5)	Local security requirements						
1c(6)	Environmental requirements						
1d	Conduct briefing/debriefings						
1e	Review/approve procedures						
1f	Operate communication systems						
2	UNDERSTAND FUNCTION AND OPERATION OF THE FOLLOWING ATLAS SUBSYSTEMS						
	TR: Procedures and training materials						
2a	Airframe						
2a(1)	Centaur						
2a(2)	Booster						
2a(3)	Interstage						
2a(4)	Solid Rocket Motor (SRM)						
2b	Ordnance						
2c	Propulsion						
2c(1)	Atlas engines						

ATTACHMENT 5
AFSC 2M0X2 STS
SPACELIFT MECHANICAL MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFYING
TASK #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
2c(2)	Centaur engine						
2c(3)	Propellant tank						
2c(4)	Solid rocket booster						
2c(5)	Roll control module/reaction control						
2d	Payload fairing and adapters						
3	UNDERSTAND FUNCTION AND OPERATION OF THE FOLLOWING DELTA SUBSYSTEMS						
	TR: Procedures and training materials						
3a	Payload fairing and adapters						
3b	First, second, third and innerstage						
3b(1)	Airframe						
3b(2)	Ordnance						
3b(3)	Hydraulics						
3b(4)	Liquid propulsion						
3b(5)	Nutation Control System						
3b(6)	Graphite Epoxy Motor (GEM)						
3c	Monitor, evaluate and report on the following fairing procedures						
3c(1)	Finaling						
3c(2)	Unloading						
3c(3)	Erection and mating						
3d	Monitor, evaluate and report on the following payload procedures						
3d(1)	Erection						
3d(2)	Erection preparation						
3d(3)	Mating and separation clamp installation						
3e	Monitor, evaluate and report on the following hydraulic procedures						
3e(1)	Pre-test preparations						
3e(2)	Second stage hydraulic checks						
3e(3)	First stage hydraulic system preparation						
3e(4)	Launch mount/hydraulic system qualifications						
3f	Monitor, evaluate and report on the following interstage procedures						
3f(1)	Erection and mating						
3f(2)	Handling and checkout						

ATTACHMENT 5
AFSC 2M0X2 STS
SPACELIFT MECHANICAL MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFYING
TASK #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
3g	Monitor, evaluate and report on the following first stage procedures						
3g(1)	Weigh						
3g(2)	Off-load						
3g(3)	Erection						
3g(4)	Engine preparations						
3g(5)	Receiving and storage						
3g(6)	Propulsion qualifications						
3g(7)	Propulsion pad qualification						
3g(8)	Propulsion system checkout						
3g(9)	Liquid Oxygen (LOX) leak checks						
3g(10)	Fuel system qualification and leak checks						
3g(11)	Pre-Vehicle On Stand (VOS) mechanical preparations						
3h	Monitor, evaluate and report on the following third stage procedures						
3h(1)	Third stage weigh						
3h(2)	Spin table processing						
3h(3)	Payload attach fitting processing						
3i	Monitor, evaluate and report on the following solid motors procedures						
3i(1)	Off-load						
3i(2)	Alignment						
3i(3)	Receiving						
3i(4)	Interface assembly						
3i(5)	Erection and mating						
3i(6)	Checkout and buildup						
3i(7)	Handling and transfer						
3i(8)	Aft fairing, cork case and forward fairing installation						
3i(9)	Graphite Epoxy Motor (GEM) nose cone installation and transportation						
3j	Monitor, evaluate and report on the following Second Stage procedures						
3j(1)	Weigh						
3j(2)	Off-load						
3j(3)	Servicing						
3j(4)	Erection and mate						

ATTACHMENT 5
AFSC 2M0X2 STS
SPACELIFT MECHANICAL MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFYING
TASK #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
3j(5)	Receiving inspection						
3j(6)	Countdown preparations						
3j(7)	Mechanical preparations						
3j(8)	Pneumatic system qualification						
3j(9)	Pre-Vehicle On Stand (VOS) and erection preparation						
3k	Monitor, evaluate and report on the following third stage payload assist motor (PAM) procedures						
3k(1)	Processing						
3k(2)	Spin table mating						
3k(3)	Stage spin balance						
3k(4)	Ordnance installation						
3k(5)	Stage build-up and weighing						
4	<i>UNDERSTAND FUNCTION, OPERATION AND PROCESSING OF THE FOLLOWING TITAN SUBSYSTEMS</i>						
	TR: Procedures and training materials						
4a	Core vehicle						
4a(1)	Airframe						
4a(2)	Hydraulics						
4a(3)	Liquid rocket engines						
4b	Payload fairings						
4c	Ordnance system						
4d	Centaur upper stage						
4d(1)	Airframe						
4d(2)	Hydraulics						
4d(3)	Propulsion						
4d(4)	Propellant transfer system						
4e	Inertial Upper Stage (IUS)						
4e(1)	Airframe						
4e(2)	Propulsion						
4e(3)	Thermal control						
4e(4)	Shuttle airborne support equipment						
4f	Solid Rocket Motor Upgrade (SRMU)						
4g	Propellant transfer and pressurization system						
4g(1)	Fuel holding area/propellant loading unit						

ATTACHMENT 5
AFSC 2M0X2 STS
SPACELIFT MECHANICAL MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFYING
TASK #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4g(2)	Oxidizer holding area/propellant loading unit						
5	<i>UNDERSTAND FUNCTION AND OPERATION OF THE FOLLOWING SPACECRAFT SUBSYSTEMS</i>						
	TR: Procedures and training materials						
5a	Airframe						
5b	Ordnance						
5c	Propulsion						
5d	Solar array						
5e	Thermal control						
5f	Flight termination						

ATTACHMENT 6
AFSC 2M0X2 STS
DEPOT STORAGE AND HANDLING TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	PEACEKEEPER ROLL TRANSFER PROCEDURES						
	TR: TO 21-LG118A-2-26						
1a	Position and stabilize solid stage transporter						
1b	Roll transfer Peacekeeper 1st, 2nd, and 3rd stage motors into solid stage transporter using solid stage transporter winch system						
1c	Conduct Peacekeeper 1st, 2nd, and 3rd stage motor to solid stage transporter and tiedown procedures						
1d	Position and stabilize type II transporter						
1e	Pneumatic Control Cart						
1e(1)	Inspect						
1e(2)	Service						
1e(3)	Operate						
1f	Conduct Peacekeeper 1st, 2nd, and 3rd stage motor to Type II tiedown procedures						
1g	Roll transfer Peacekeeper 1st, 2nd, and 3rd stage motors in and out of Type II transporter using pneumatic control cart and transport and handling end rings						
1h	Roll transfer 1st, 2nd, and 3rd stage motors into building using building winch system and processing rings						
2	PEACEKEEPER END RING CHANGE OUT PROCEDURES						
	TR: TO 21-LG118A-2-26						
2a	Remove/Install transport and handling rings						
2b	Remove/Install processing rings						
3	PERFORM MISSILE TRANSFER AND TIEDOWN PROCEDURES						
	TR: TOs 21M-LGM30B-2-26, 21M-LGM30F-3-3, 21M-LGM30B-2-2, 35A2-5-25-1, 36A-2-14-2, 21M-LGM30B-2-25						
3a	Operational carriages						
3b	Storage carriages						
4	ROCKET MOTOR TRAILER (RMT) TRANSPORT TIEDOWN PROCEDURES						
	TR: TOs 21M-LGM30B-2-26, 36A9-11-3-31, 36A9-11-3-21, 35A-4-2-41-1, 2K-SR-55-3, 2K-SR-56-3, 2K-SR-73-3, 2K-SR-57-3, 21M-LGM30B-2-25, 35AR-2-41-1; AFI 91-409; OGDEN AFMC 136-2						
4a	Perform tractor/trailer suspension operation procedures						
4b	Conduct RMT environmental control operation procedures						
4c	Perform RMT leveling procedures						

ATTACHMENT 6
AFSC 2M0X2 STS
DEPOT STORAGE AND HANDLING TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4d	Conduct procedures to transport to and download at disposal area						
4e	Perform operational carriage handling and tiedown procedures						
4f	Conduct end ring and bogie wheels 1st stage handling and tiedown procedures						
4g	Perform research and development carriage handling and tiedown procedures						
4h	Perform universal carriage handling and tiedown procedures						
4i	Perform storage carriage tiedown procedures						
4j	Perform end ring tiedown procedures for LGM30F & G 2nd and 3rd stages						
4k	Perform liquid injection thrust vector control (LITVC) tiedown procedures						
4l	Conduct visual rocket motor inspection for shipping and receiving						
5	MINUTEMAN MISSILE CARRIAGE CHANGE						
	TR: TO 21M-LGM30B-2-26						
5a	Perform carriage inspection procedures						
5a(1)	Operational						
5a(2)	Storage						
5b	Perform carriage change out procedures						
6	PERFORM M-BAR REMOVAL/INSTALLATION PROCEDURES						
	TR: TO 21M-LGM30F-2-26						
7	MOTOR HORIZONTAL AND VERTICAL RESTRAINT PROCEDURES						
	TR: TOs 21M-LGM30B-2-26, 2K-SRM57-3, 2K-SRM56-3, 2K-SR55-3, 2K-SR19-3, 2K-SR73-2						
7a	Perform 1st stage installation/removal procedures						
7b	Perform LGM30B, F, & G 2nd stage installation/removal procedures						
7c	Perform LGM30B, F, & G 3rd stage installation/removal procedures						
8	HOISTING PROCEDURES						
	TR: TOs 21M-LGM30B-2-26, 2K-SRM55-3, 2K-SRM56-3, 2K-SRM57-3, 2K-SR19-3, 2K-SR73-3: AFI 91-409						
8a	Perform 1st stage lifting I-beam procedures						
8b	Perform 1st stage nylon straps/spreader bar procedures						
8c	Perform 1st stage cable lifting sling (fired case) procedures						
8d	Perform 2nd stage lifting I-beam procedures						

ATTACHMENT 6
AFSC 2M0X2 STS
DEPOT STORAGE AND HANDLING TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
8e	Perform 2nd stage nylon straps with spreader bar procedures						
8f	Perform 3rd stage H-frame sling procedures						
8g	Perform 3rd stage adjustable cable assembly procedures						
8h	Perform LGM30G 3rd stage lifting I-beam procedures						
8i	Perform missile booster sling procedures						
8j	Perform operation of facility hoist (10 Ton and 50 Ton)						
9	REMOVE / INSTALL IMPALLERS						
	TR: TOs 21M-LGM30B-2-6, 2K-SR73-7						
10	REMOVE AND INSTALL FREON COLLECTION TANK						
	TR: TO 21M-LGM30F-2-26; Test Directive; AFMC Form 206						
11	STATIC FIRING FACILITY PROCEDURES						
	TR: TOs 22D9-144-5-1, 2K-SRM55-2-11, 2K-SRM56-3, 2K-SRM56-11, 2K-SRM57-3, 2K-SRM57-11, 33D9-114-5-1; Test Directives; AFMC Form 206						
11a	Perform universal test fixture stand installation and alignment						
11b	Perform rocket motor installation/removal for all stages						
11c	Perform rocket motor alignment procedures						
11d	Perform roller adjustment (universal test fixture)						
11e	Perform transit function/operation						
11f	Perform small component and motor firing						
12	PERFORM OPERATIONAL PRESSURE TRANSDUCER INSTALLATION FOR LGM30B/F/G 1st & 2nd STAGE AND LGM30A/B/F/G 3rd STAGE						
	TR: TOs 21M-LGM30B-2-26, 2K-SRM53-3, 2K-SRM55-11, 2K-SR19-11, 2K-SR73-3; Test Directive						
13	PROOFLOAD FACILITY						
	TR: TO 21M-LGM30F-1-17						
13a	Perform proofload of						
13a(1)	Minuteman operational carriages						
13a(2)	Missile booster sling						
13a(3)	Facility crane (10 Ton and 50 Ton)						
13a(4)	Tower assembly proofload system						
13a(5)	Minuteman missile suspension proofload kit						
13b	Hydraulic power unit						

ATTACHMENT 6
AFSC 2M0X2 STS
DEPOT STORAGE AND HANDLING TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
13b(1)	Inspect						
13b(2)	Service						
13b(3)	Operate						
14	STARS ROCKET MOTORS						
	TR: 2721 MMTS OI 55-253 ; TO 21M-LGM30B-2-26						
14a	Raise and lower motor with airbags						
14b	Change carriage with crane and fixed rail assembly						
14c	Tiedown in RMT						
15	SUPERVISION						
15a	Analyze and resolve irregular occurrences during						
15a(1)	Minuteman missile and rocket motor roll transfer procedures	7					
	TR: TOs 21M-LGM30B-2-26, 21M-LGM30F-3-3, 21M-LGM30B-2-2, 35A2-5-25-1, 36A-2-14-2, 21M-LGM30B-2-25						
15a(2)	Carriage change operations	7					
	TR: 21M-LGM30B-2-26						
15b	Certify configuration of Minuteman missile and rocket motors for shipment						
	TR: TOs 21M-LGM30B-2-26, 36A9-11-3-31, 36A9-11-3-21, 35A-4-2-41-1, 2K-SR-55-3, 2K-SR-56-3, 2K-SR-73-3, 2K-SR-57-3, 21M-LGM30B-2-25, 35AR-2-41-1; AFI 91-409; OGDEN AFMC 136-2						
15c	Support outside agencies during engineering of new and	7					
	modified workloads						
	TR: TOs 21M-LGM30B-2-26, 21-LG118A-2-26, 21M-AGM86-1-1						
15d	Supervise personnel during						
15d(1)	Minuteman missile and rocket motor transfer	7					
	TR: TOs 21M-LGM30B-2-26, 21M-LGM30F-3-3, 21M-LGM30B-2-2, 35A2-5-25-1, 36A-2-14-2, 21M-LGM30B-2-25						
15d(2)	Carriage change operations	7					
	TR: 21M-LGM30B-2-26						
15e	Assess workload and personnel requirements to plan weekly work schedules	7					

ATTACHMENT 7
AFSC 2M0X2 STS
LABORATORY TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	COMPLY WITH EXPLOSIVE SAFETY PROCEDURES						
	TR: AFIs 91-202, 91-201; TOs 11A-1-46,11A-1-42,11A-1-66						
1a	Laboratory/range safety						
1b	Transportation						
1c	Initiators (EBWS/CAPS)						
1d	Storage						
2	LASERS						
	TR: TO 31-1-141-3; AFOSH STD 161-10						
2a	Comply with standard safety practices						
2b	Describe theory of operation						
2c	Setup						
2d	Operate						
3	HIGH ENERGY MICROWAVE SYSTEMS						
	TR: TO 31-1-141-11						
3a	Comply with standard safety practices						
3b	Describe theory of operation						
3c	Set-up						
3d	Operate						
4	OPTICS						
	TR: TO 33B-8-9-1						
4a	Describe theory of operation						
4b	Clean						
4c	Align						
4d	Handle						
5	PROPELLANTS						
	TR: AFIs 91-201, 91-202; AFMAN 161-30 VOL 2						
5a	Solid propellant						
5a(1)	Comply with standard safety practices						
5a(2)	Handle						
5a(3)	Store						
5b	Liquid propellants						

ATTACHMENT 7
AFSC 2M0X2 STS
LABORATORY TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
5b(1)	Comply with standard safety practices						
5b(2)	Store						
5b(2a)	LOX/LN2						
5b(2b)	Hypergolics						
6	LIQUID/GAS/VACUUM SYSTEMS						
	TR: TOs 00-25-233, 00-25-244, 1-1A-8,33-1-19						
6a	Liquid systems						
6a(1)	Comply with standard safety practices						
6a(2)	Describe theory of operation						
6a(3)	Design						
6a(4)	Fabricate						
6a(5)	Install						
6a(6)	Operate						
6b	Gas systems						
6b(1)	Comply with standard safety practices						
6b(2)	Describe theory of operation						
6b(3)	Design						
6b(4)	Fabricate						
6b(5)	Install						
6b(6)	Operate						
6c	Vacuum systems						
6c(1)	Comply with standard safety practices						
6c(2)	Describe theory of operation						
6c(3)	Design						
6c(4)	Fabricate						
6c(5)	Install						
6c(6)	Operate						
7	RESEARCH AND DEVELOPMENT LABORATORY EQUIPMENT						
	TR: TOs 33-1-19, 00-25-299						
7a	Vacuum pumps						
7a(1)	Inspect						
7a(2)	Operate						

ATTACHMENT 7
AFSC 2M0X2 STS
LABORATORY TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
7b	Ovens						
7b(1)	Inspect						
7b(2)	Operate						
7c	Chillers						
7c(1)	Inspect						
7c(2)	Operate						
8	PERSONAL COMPUTERS						
	TR: AFI 33-106						
8a	Understand fundamentals						
8b	Use DOS						
8c	Use data bases						
8d	Use spreadsheets						
8e	Use word processors						

ATTACHMENT 8
AFSC 2M0X2 STS
CHEYENNE MOUNTAIN MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFY
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
1	MAIN AUXILIARY VALVE HYDRAULIC POWER UNITS						
	TR: O&M Manual Vol 9, Vol 9A						
1a	Checkout and operate						
1b	Inspect						
1c	Service						
1d	Troubleshoot						
1e	Repair						
1f	Remove and replace component						
2	MAIN AUXILIARY INTAKE AND EXHAUST BLAST VALVES						
	TR: O&M Manual Vol 9, Vol 9A						
2a	Operate						
2b	Inspect						
2c	Troubleshoot						
2d	Repair						
2e	Remove and replace component						
2f	Analyze and resolve deficiencies using hydraulic and pneumatic principles	7					
3	MAIN BLAST DOOR SYSTEMS						
	TR: O&M Manual Vol 9, Vol 9A						
3a	Checkout and operate						
3b	Inspect						
3c	Service						
3d	Troubleshoot						
3e	Repair						
3f	Remove and replace component						
3g	Analyze and resolve deficiencies using hydraulic and pneumatic principles						
4	MAINTENANCE BLAST DOOR						
	TR: O&M Manual Vol 9, Vol 9A						
4a	Checkout and operate						
4b	Inspect						
4c	Service						

ATTACHMENT 8
AFSC 2M0X2 STS
CHEYENNE MOUNTAIN MAINTENANCE TASKS

		CORE	START	COMP	TRAINEE	TRAINER	CERTIFY
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
4d	Troubleshoot						
4e	Repair						
4f	Remove and replace component						
4g	Analyze and resolve deficiencies using hydraulic and pneumatic principles						
5	VEHICLE ARREST BARRIER						
	TR: Delta O&M Manual						
5a	Checkout and operate						
5b	Inspect						
5c	Service						
5d	Troubleshoot						
5e	Repair						
5f	Remove and replace component						
5g	Analyze and resolve deficiencies using hydraulic and pneumatic principles						
6	HYDRAULIC FILTERING UNIT						
	TR: Schroeder O&M Manual						
6a	Checkout and operate						
6b	Repair						
6c	Remove and replace component						
6d	Troubleshoot						
7	HYDRAULIC SCISSORS LIFT						
	TR: American O&M Manual						
7a	Operate						
7b	Troubleshoot						
7c	Service						
7d	Repair						
7e	Remove and replace component						
8	DOVER HYDRAULIC ELEVATOR						
	TR: Dover O&M Manual						
8a	Operate						
8b	Service						
8c	Inspect						

ATTACHMENT 8
AFSC 2M0X2 STS
CHEYENNE MOUNTAIN MAINTENANCE TASKS

							CERTIFY
		CORE	START	COMP	TRAINEE	TRAINER	OFFICIAL
ITEM #	TASK / KNOWLEDGE ITEM	TASK	DATE	DATE	INITIALS	INITIALS	INITIALS
8d	Troubleshoot						
8e	Repair						
8f	Remove and replace component						
9	<i>HOISTING EQUIPMENT</i>						
	TR: OSHA 1926.550, 1926.552, 1926.554						
9a	Operate						
9b	Inspect						
9c	Service						
9d	Repair						
9e	Remove and replace						

PART II
Section B - EST SUPPORT MATERIALS

None identified.

PART II
Section C - TRAINING COURSE INDEX

1. **Purpose.** This section of CFETP identifies training courses available in the Missile and Space Systems Maintenance specialty and shows how the courses are used by each MAJCOM in their career field training programs. Career field functional managers and training management personnel should use this information to plan, develop, and update their respective MAJCOM continuation training program.

2. Air Force In-Residence Courses

a. *3-Level Awarding Course.* Completion of the following course is mandatory for the award of the 3-skill level.

<u>CRS NO./TITLE</u>	<u>MDS/EQUIP</u>	<u>LOCATION</u>	<u>USER</u>
V3ABR2M032A Missile and Space Systems Maintenance Apprentice	ICBM	VANDENBERG	AFSPC

b. *Other In-Resident Courses.*

<u>CRS NO./TITLE</u>	<u>MDS/EQUIP</u>	<u>LOCATION</u>	<u>USER</u>
L3ATR40020 Electronic Principles		LACKLAND	ALL
ICBM-IC ICBM Maintenance Instructional Techniques Course	ICBM	F E WARREN	AFSPC
ICBM-MIC ICBM Maintenance Evaluator Course	ICBM	E WARREN	AFSPC

3. Extension Course Institute (ECI) Courses

<u>CRS NO.</u>	<u>COURSE TITLE</u>
CDC 2M052	Missile and Space Systems Maintenance Journeyman
CDC 2M072	Missile and Space Systems Maintenance Craftsman

PART II
Section D - MAJCOM UNIQUE PROCEDURES

None Identified.